

Service  
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**14PV135/01/07/58**

**14PV235/01/07/58**

**14PV385/01/07/39**

# Service Manual

## Contents

Chapter

Sec. 1: Adjustment Procedure  
Schematic Diagrams and CBA's  
Exploded Views  
Mechanical and Electrical Parts Lists

Sec. 2: Standard Maintenance  
Mechanism Alignment Procedures  
Disassembly / Assembly of Mechanism  
Deck Exploded Views

## Survey of versions:

/01	PAL-BG, EURO
/07	PAL I, UK/IRELAND
/39	PAL/SECAM-BG+PAL/SECAM-L/L', FRANCE
/58	PAL-BG/DK+SECAM-BG/DK, EAST-EURO

**For technical data reference is made to the Service Manual of 21PV385/01/07/39/58 3103 785 22330 (VN: 1B). The present manual states only the differences.**

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.



# PREPARATION FOR SERVICING

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58), 14PV385/ (01, 07, 39) ]

## How to Enter the Service Mode

### Caution: 1

- Optical sensors system are used for Tape Start and End Sensor on this equipment. Read this page carefully and prepare as described on this page before starting to service; otherwise, the unit may operate unexpectedly.

### Preparing: 1


- Cover Q202 (START SENSOR) and Q201 (END SENSOR) with Insulation Tape or enter the service mode to activate Sensor Inhibition automatically.

**Note:** Avoid playing, rewinding or fast forwarding the tape to its beginning or end, because both Tape End Sensors are not active.

## How to Enter the Service Mode

- Turn the power on. (Use main power on the TV unit.)
- Press [STANDBY/ON], [2], [7], [1], and [MUTE] buttons on the remote control unit in that order within 5 seconds. When entering the service mode, "4" will display at corners of the screen.
- During the service mode, electrical adjustment mode can be selected by remote control key.

Details are as follows.

Key	Adjustment Mode
<b>MENU</b>	Picture adjustment mode: Press the MENU button to change from BRT (Bright), *CNT (Contrast), *COL (Color), *TNT(Tint) and SHP(SHARP). Press P+/P- key to adjust Initial Value. *Marked items are not necessary to adjust normally.
 -	SECAM Black Level adjustment mode: See adjustment instructions page 1-6-13. Cut-Off adjustment mode: See adjustment instructions page 1-6-14. White Balance adjustment mode: See adjustment instructions page 1-6-15.
<b>0</b>	C-Trap adjustment mode: See adjustment instructions page 1-6-12.
<b>1</b>	DSPC adjustment mode: See adjustment instructions page 1-6-12.
<b>2</b>	H adjustment mode: See adjustment instructions page 1-6-11.
<b>3</b>	Head switching point adjustment mode (Auto adjustment): See adjustment instructions page 1-6-17.
<b>4</b>	Auto record mode: Perform recording (15 Sec.)-->Stop-->Rewind (Zero return) automatically.

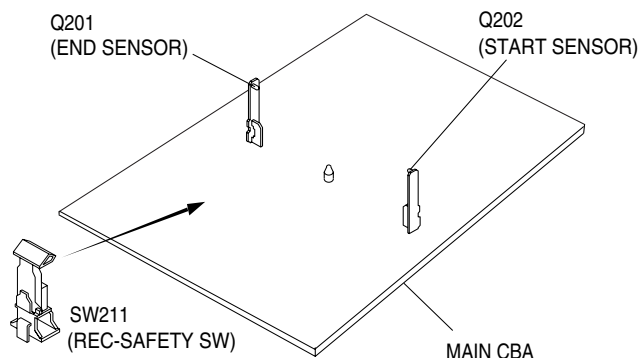
Key	Adjustment Mode
<b>5</b>	Head switching point adjustment mode (Manual adjustment): See adjustment instructions page 1-6-17.
<b>6</b>	No need to use.
<b>7</b>	No need to use.
<b>8</b>	H. Shift adjustment mode: See adjustment instructions page 1-6-14.
<b>9</b>	V.size/V. shift adjustment: See adjustment instructions page 1-6-13.

### Caution: 2

- The deck mechanism assembly is mounted on the Main CBA directly, and SW211 (REC-SAFETY SW) is mounted on the Main CBA. When deck mechanism assembly is removed from the Main CBA due to servicing, this switch can not be operated automatically.

### Preparing: 2

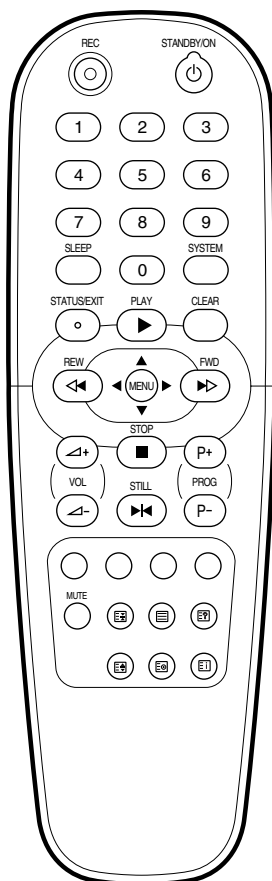
- To eject the tape, press the STOP/EJECT button on the unit (or Remote Control).
- When you want to record during the Service mode, press the Rec button while depressing SW211 (REC-SAFETY SW) on the Main CBA.



# OPERATING CONTROLS AND FUNCTIONS

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58) ]

## The remote control



**REC** To record the TV channel selected at this moment or press repeatedly to start a One-Touch Recording.

**STANDBY/ON** To switch off or on, interrupt menu function.

**0..9** Press to select channels at TVCR.

**SLEEP** To select the switch-off time in 30 minutes intervals.

**SYSTEM** Doesn't work on this models. (14PV135/01, 07 / 14PV235/01, 07)

To change Video (colour) system. (14PV135/58 / 14PV235/58)

**STATUS/EXIT** To access or remove the TVCR's on-screen status display. To exit on-screen menus.

**CLEAR** To delete last entry. To clear a programmed recording (TIMER). To reset the elapsed time counter in the playback, recording or stop mode.

**STILL** To stop the tape and play back a picture step by step. (except for during fast forwarding and fast rewinding)

**MENU** To call up main menu of TVCR.

**FWD** When tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stays on the screen. To store or confirm entry in the menu. Press to adjust the controls of TVCR menu.

**REW** When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stays on the screen. To return the cursor in the menu. Press to adjust the controls of TVCR menu.

**PLAY** To play back a tape, select an item in the menu of TVCR.

**STOP** To stop the tape, select an item in the menu of TVCR.

**VOL** **VOL** To adjust the volume.

**PROG P+** **PROG P-** To select the programme number. During playback, press to adjust the tracking.

**MUTE** To eliminate the TV's sound. Press again to restore the volume.

**Red button/ Green button/ Yellow button/ Blue button/** Doesn't work on these models.

**<14PV235>**

: To switch Teletext on or off, or transparent mode.

: Enlarge font

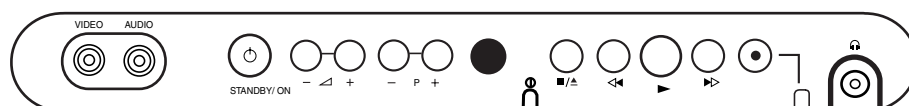
: Select Teletext sub-page

: Recall hidden information

: Stop page changes

: Go back to start page.

## Front of your TVCR



**STANDBY/ON:** To switch off or on, interrupt menu function.

**Volume:** In connection with the button to adjust the volume.

**Programme number:** To select the programme number. During playback, press to adjust the tracking. To remove vertical jitter in a Still picture.

**Record:** To record the programme currently selected.

**Playback:** To play a recorded cassette.

**Pause/ Stop, eject cassette:** To stop the tape; If this key is depressed while in STOP, the cassette is then ejected from the machine.

When tape playback is stopped, press to fast forward the tape at high speed.

When tape playback is stopped, press to rewind the tape at high speed.

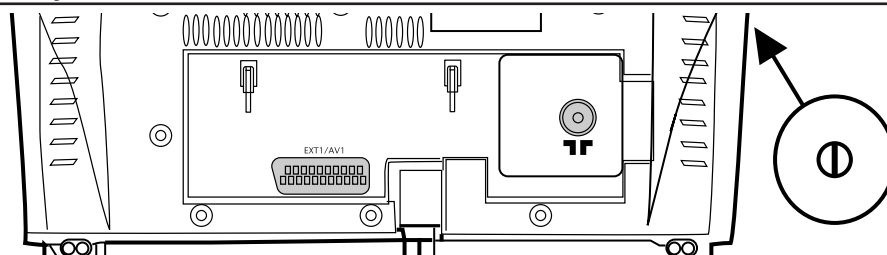
**Sockets on the front:**

**White socket / input socket:** To connect a camcorder or a video game machine (audio).

**Yellow socket / input socket:** To connect a camcorder or a video game machine (video).

**Small socket / socket for headphones:** To connect headphones.

## Back of your TVCR



**Aerial input socket:** To connect the aerial cable.

**Scart socket :** To connect a satellite receiver, decoder, video recorder, etc

**Power switch:** To switch the TV-Video Combi off.

**Caution:** If you switch off using the power switch, TIMER-recordings are impossible!

## The control lights on the front of machine

**STANDBY** **Standby light:** lights up when the TV-Video Combi has been switched on by means of the main switch.

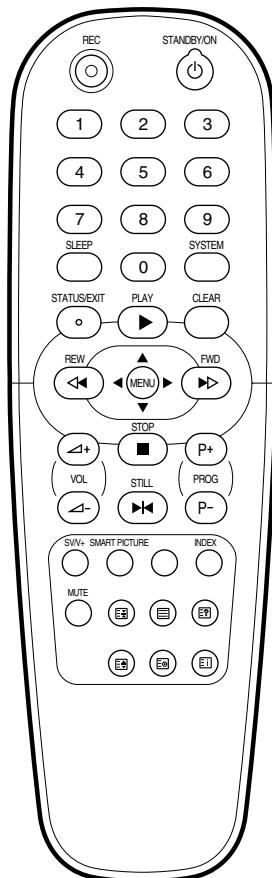
**RECORD** **Recording light:** lights up during recording.

**FAST blink:** RECORDING PAUSE; TIMER RECORDING NOT STAND-BY.

**SLOW blink:** TIMER RECORDING is stored in a timer block.

# [ 14PV385/ (01, 07, 39) ]

## The remote control



**REC** To record the TV channel selected at this moment or press repeatedly to start a One-Touch Recording.

**STANDBY/ON** To switch off or on, interrupt menu function.

**0..9** Press to select channels at TVCR.

**SLEEP** To select the switch-off time in 30 minutes intervals.

**SYSTEM** Doesn't work on this model. (14PV385/01, 07)

To change the Video (colour) system. (14PV385/39)

**STATUS/EXIT** To access or remove the TVCR's on-screen status display. To exit on-screen menus.

**CLEAR** To delete last entry. To clear a programmed recording (TIMER). To reset the elapsed time counter in the playback, recording or stop mode.

**STILL** To stop the tape and play back a picture step by step. (except for during fast forwarding and fast rewinding)

**MENU** To call up main menu of TVCR.

**FWD** When tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stays on the screen. To store or confirm entry in the menu. Press to adjust the controls of TVCR menu.

**REW** When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stays on the screen. To return the cursor in the menu. Press to adjust the controls of TVCR menu.

**PLAY** To play back a tape, select an item in the menu of TVCR.

**STOP** To stop the tape, select an item in the menu of TVCR.

**VOL** To adjust the volume.

**PROG P+** **PROG P-** To select the programme number. During playback, press to adjust the tracking.

**SV/V+** **Red button** / To programme recordings with SHOW VIEW / VIDEO Plus+® or to alter / clear programmed TIMER recordings. Select Teletext function when you are in Teletext mode.

**SMART PICTURE** **Green button** / To call up preset picture settings. Select Teletext function when you are in Teletext mode.

**Yellow button** / Select Teletext function when you are in Teletext mode.

**INDEX** **Blue button** / Search for the previous/next recording code on the tape in combination with **REW** / **FWD**. Select Teletext function when you are in Teletext mode.

**MUTE** To eliminate the TV's sound. Press again to restore the volume.

: Switch Teletext on or off, or transparent mode

: Enlarge font

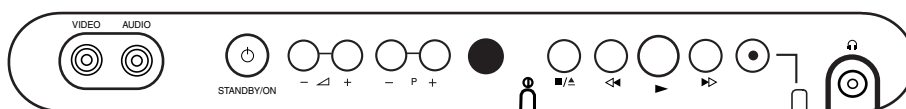
: Select Teletext sub-page

: Recall hidden information

: Stop page changes

: Go back to start page

## Front of your TVCR



**STANDBY/ON:** To switch off or on, interrupt menu function.

**Volume:** In connection with the button to adjust the volume.

**Programme number minus:** previous programme number

**Programme number plus:** next programme number

**Record:** To record the programme currently selected.

**Playback:** To play a recorded cassette.

**Pause/Stop, eject cassette:** To stop the tape; If this key is depressed while in STOP, the cassette is then ejected from the machine.

When tape playback is stopped, press to fast forward the tape at high speed.

When tape playback is stopped, press to rewind the tape at high speed.

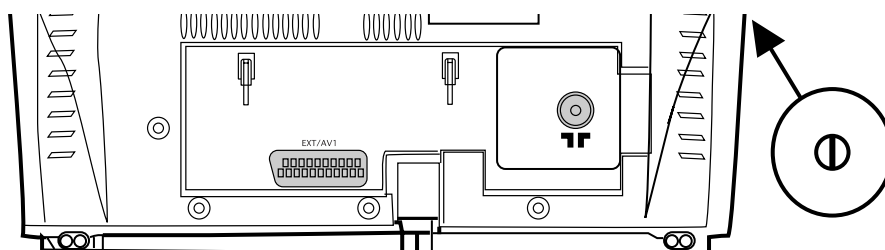
**Sockets on the front:**

**White socket / AUDIO input socket:** To connect a camcorder or a video game machine (audio).

**Yellow socket / VIDEO input socket:** To connect a camcorder or a video game machine (video).

**Small socket / socket for headphones:** To connect headphones.

## Back of your TVCR



**Aerial input socket:** To connect the aerial cable.

**Scart socket :** To connect a satellite receiver, decoder, video recorder, etc

**Power switch:** To switch the TVCR off.

**Caution:** If you switch off using the power switch, TIMER-recordings are impossible!

## The control lights on the front of machine

**STANDBY** **Standby light:** lights up when the TVCR has been switched on by means of the main switch.

**RECORD** **Recording light:** lights up during recording.

**FAST blink:** RECORDING PAUSE; TIMER RECORDING NOT STAND-BY.

**SLOW blink:** TIMER RECORDING is stored in a timer block.

# CABINET DISASSEMBLY INSTRUCTIONS

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58), 14PV385/ (01, 07, 39) ]

Comparison Chart of Models and Marks

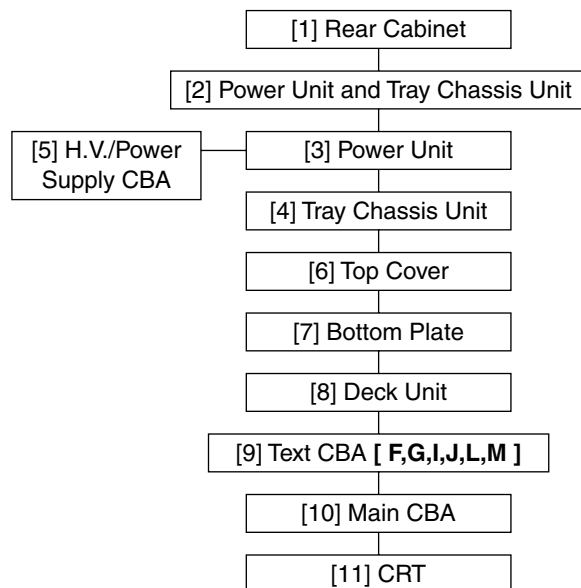
Model	Mark
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M

## 1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.

### Caution !!

When removing the CRT, be sure to discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.



## 2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOL- DER	Note
[1]	Rear Cabinet	1,2,5	4(S-1), 2(S-2), *CN804	1
[2]	Power Unit and Tray Chassis Unit	3,4,5	Anode Cap, *CN501, *CN551, *CN601, CRT CBA	2
[3]	Power Unit	3,5	*CN502, *CN552, *CN602	3
[4]	Tray Chassis Unit	3	-----	-
[5]	H.V./Power Supply CBA	3	6(S-3)	4
[6]	Top Cover	3	5(S-4), CL604	5
[7]	Bottom Plate	3	(S-5)	6
[8]	Deck Unit	3, 5	7(S-6), (S-7), (S-8), Desolder *(CN201, CL401, CL402, CL403)	7
[9]	Text CBA -- [ F,G,I,J,L, M ]	3, 5	(S-9), *CN751, *CN752	8
[10]	Main CBA	3	4(S-10)	9
[11]	CRT	4	4(S-11)	10

↓ (1) ↓ (2) ↓ (3) ↓ (4) ↓ (5)

(1): Order of steps in Procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the identification (location) No. of parts in Figures.

(2): Parts to be removed or installed.

(3): Fig. No. showing Procedure of Part Location.

(4): Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

S=Screw, P=Spring, L=Locking Tab, CN=Connector, \*=Unhook, Unlock, Release, Unplug, or Desolder

2(S-2) = two Screw (S-2)

(5): Refer to the following "Reference Notes in the Table."

## Reference Notes in the Table

1. Removal of the Rear Cabinet.  
Remove four screws (S-1) and two screws (S-2).  
Disconnect connector CN804 and remove the Rear Cabinet.

### Caution !!

Discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.

2. Removal of the Power Unit and Tray Chassis Unit.  
Discharge the Anode Lead of the CRT with the CRT Ground before removing the Anode Cap.  
Disconnect the following: Anode Cap, CN501, CN551, CN601, and CRT CBA. Then pull the Power Unit and Tray Chassis Unit out backward.
3. Removal of the Power Unit.  
Disconnect connectors CN502, CN552, and CN602. Then slide the Power Unit out.
4. Removal of the H.V./Power Supply CBA.  
Remove six screws (S-3) and pull up the H.V./Power Supply CBA.
5. Removal of the Top Cover.  
Remove five screws (S-4) and CL604, and remove the Top Cover.
6. Removal of the Bottom Plate.  
Remove a screw (S-5). Then slide the Bottom Plate out front.
7. Removal of the Deck Unit.  
Remove seven screws (S-6), screw (S-7) and screw (S-8). Then, desolder connectors (CN201, CL401, CL402, CL403) and lift up the Deck Unit.
8. Removal of the Text CBA. [ F,G,I,J,L,M ]  
Remove screw (S-9), and disconnect connectors CN751 and CN752. Then, lift the Text CBA up.
9. Removal of the Main CBA.  
Remove four screws (S-10) and pull up the Main CBA.
10. Removal of the CRT.  
Remove four screws (S-11) and pull the CRT backward.

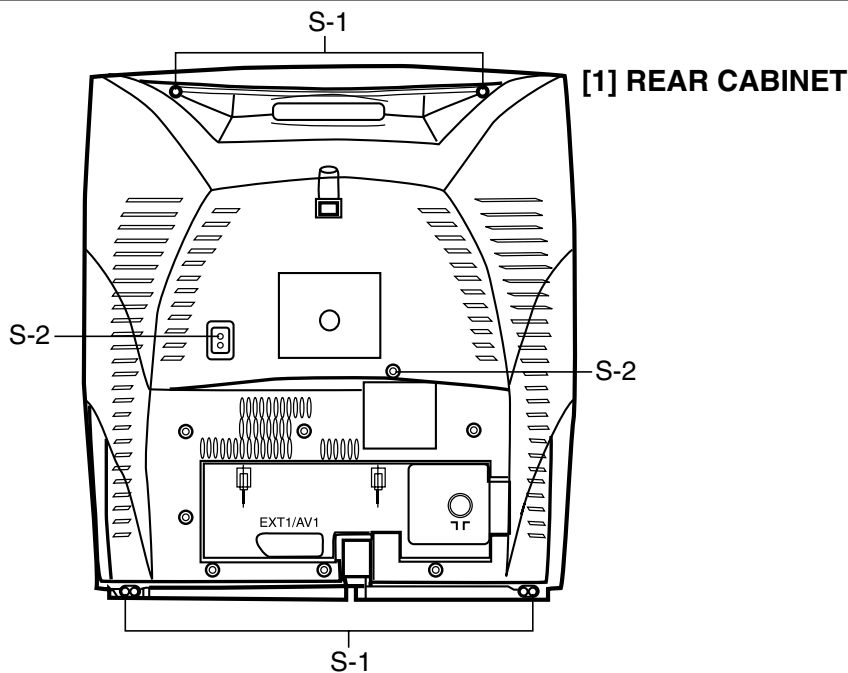
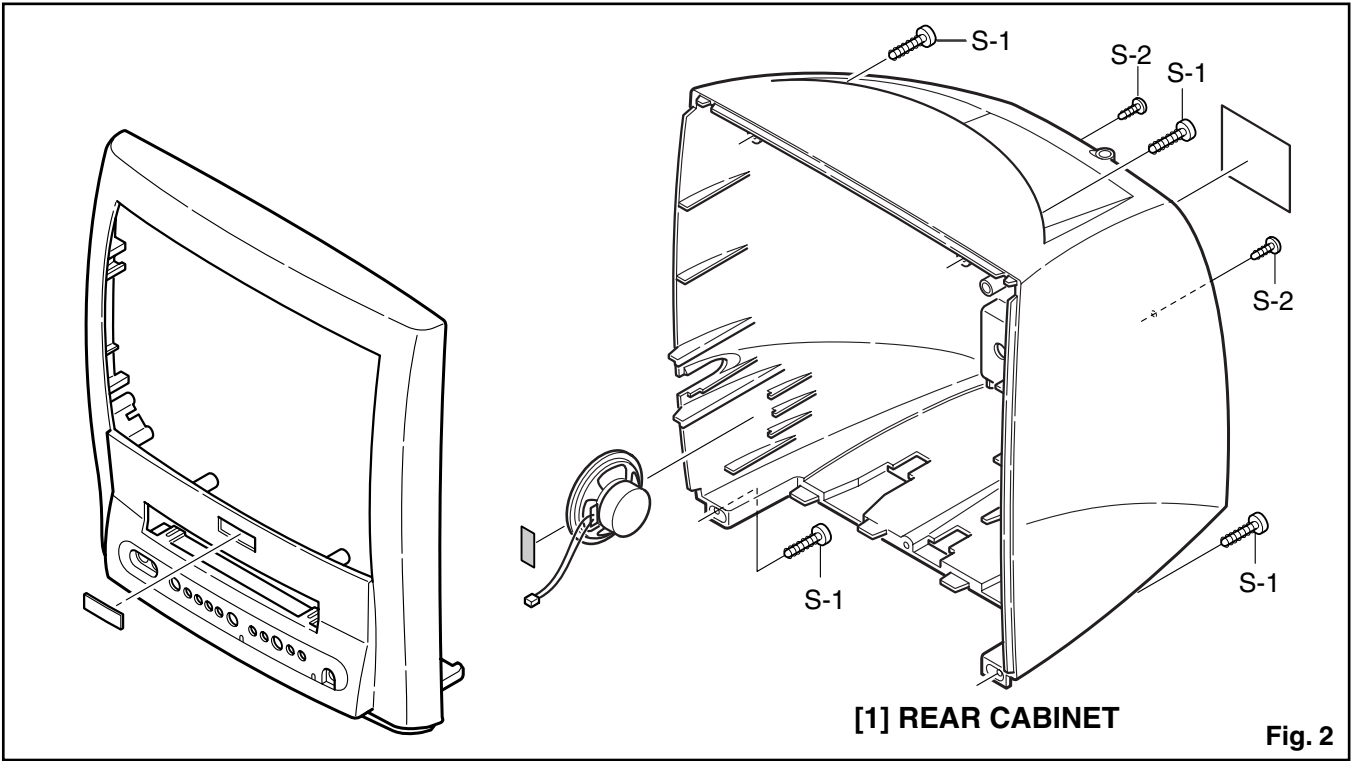


Fig. 1





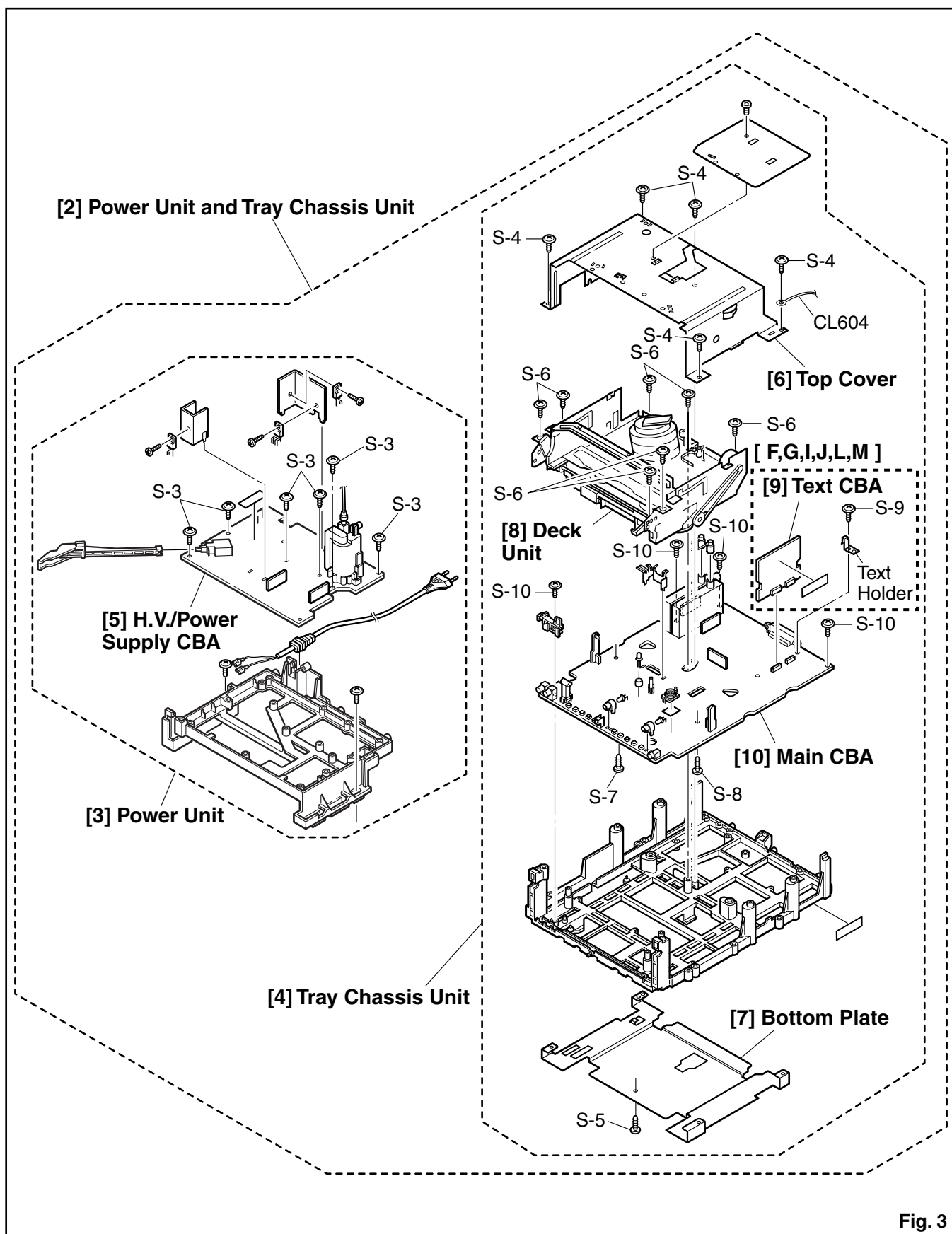
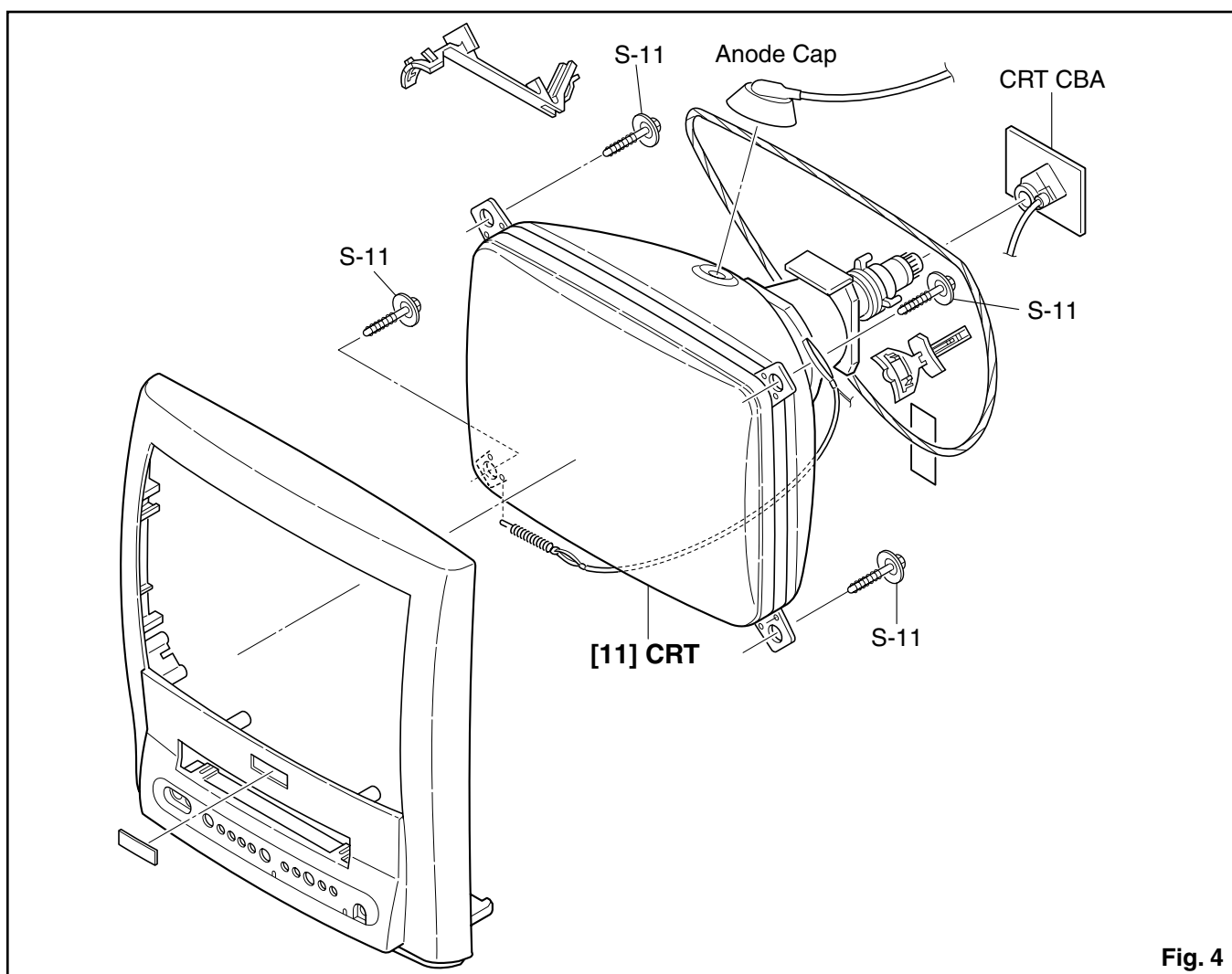


Fig. 3



**Fig. 4**

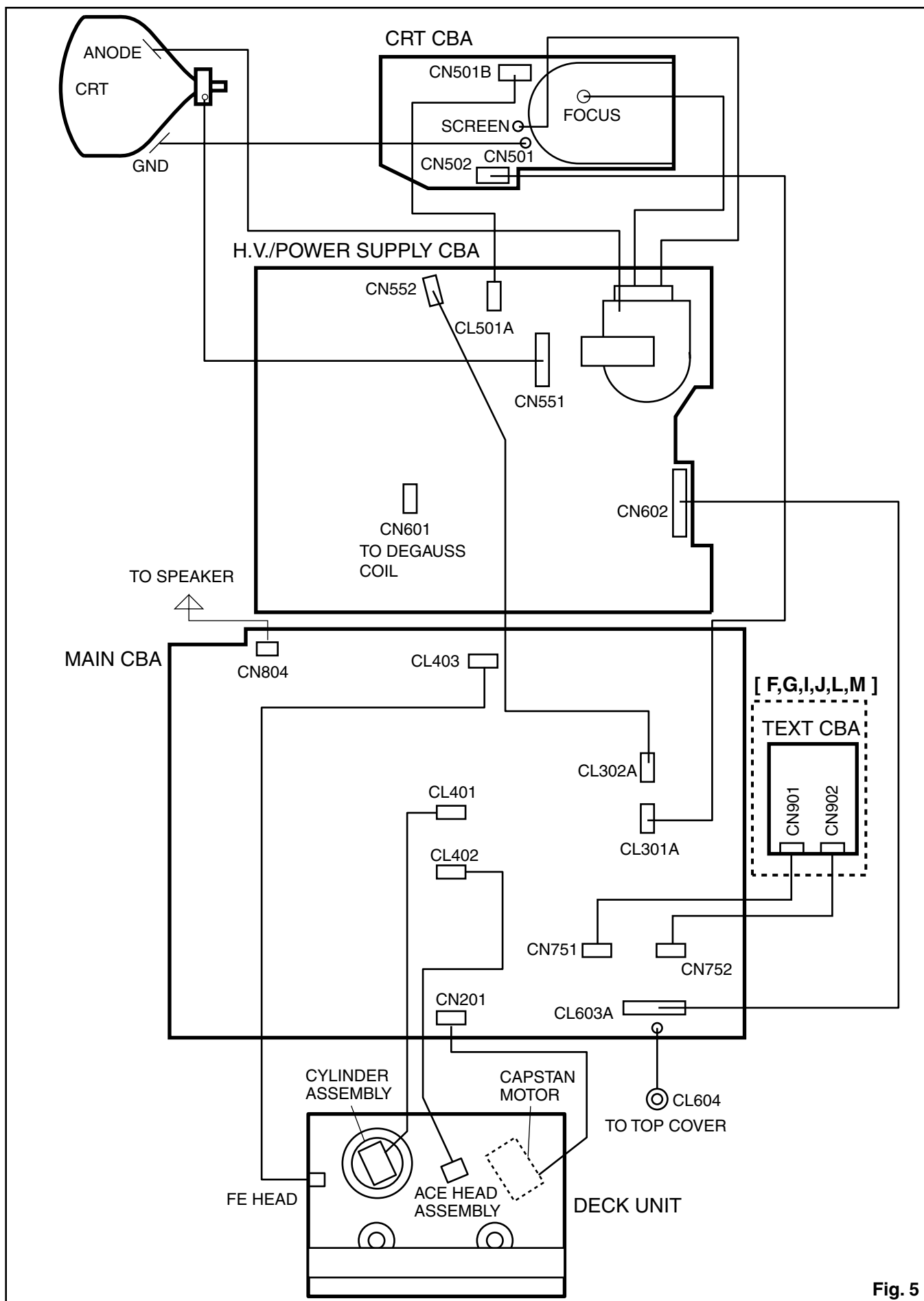


Fig. 5

# ELECTRICAL ADJUSTMENT INSTRUCTIONS

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58), 14PV385/ (01, 07, 39) ]

## General Note:

"CBA" is abbreviation for "Circuit Board Assembly."

### NOTE:

Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.

Also, do not attempt these adjustments unless the proper equipment is available.

## Test Equipment Required

1. PAL Pattern Generator (Color Bar, Monoscope, Black Raster, White Raster, Sympte)
2. SECAM Pattern Generator (Gray Scale)
3. AC Milli Voltmeter (RMS)
4. Alignment Tape (9965 000 14514), Blank Tape (E180)
5. DC Voltmeter
6. Oscilloscope: Dual-trace with 10:1 probe,  
V-Range: 0.001~50V/Div,  
F-Range: DC~AC-60MHz
7. Frequency Counter
8. Plastic Tip Driver
9. RF input (at each broadcasting system)  
Receiving Channel : VHF Low  
Input level : 80dBμV
10. Ext.input  
FRONT VIDEO-IN JACK or REAR SCART JACK

## How to Set up the Service mode:

### NOTE:

After replacing the IC202 (Memory) or Main CBA, the set value in IC202 (Memory) will be lost. So it is necessary to set up or adjust in the Service mode after its replacement.

### Service Mode:

1. Turn the power on. (Use main power on the TV unit.)
  2. Press [STANDBY/ON], [2], [7], [1], and [MUTE] buttons on the remote control unit in that order within 5 seconds.
- To cancel the service mode, press [STANDBY/ON] button on the remote control.

## How to set up the option code

1. Enter the Service mode.
2. Press the [STATUS/EXIT] button on the remote control unit. The option code appears on the display.
3. If needed, input the option code as shown below using number buttons on the remote control unit.

Model	Option Code
14PV135/01	0130
14PV135/07	0128
14PV135/58	0131
14PV235/01	0178
14PV235/07	0176
14PV235/58	0179
14PV385/01	2994
14PV385/07	2992
14PV385/39	2961

4. To reset the software, press [PAUSE] and [5] buttons on the remote control unit.  
The option code is changed.

## 1. DC 105V (+B) Adjustment

**Purpose:** To obtain correct operation.

**Symptom of Misadjustment:** The picture is dark and unit does not operate correctly.

Test point	Adj. Point	Mode	Input
TP503 (+B), TP504 (GND)	VR601	RF (or Ext.)	Color Bar
Tape	M. EQ.	Spec.	
---	DC Voltmeter, Plastic Tip Driver	+105±0.5V DC	

**Note:** TP503(+B), TP504(GND), VR601 --- H.V./Power Supply CBA

1. Connect the unit to AC Power Outlet. (exact AC230V)
2. Input a color bar signal from RF (or Ext.) input and leave it for at least 20 minutes.
3. Connect DC Volt Meter to TP503(+B) and TP504(GND).
4. Adjust VR601 so that the voltage of TP503(+B) becomes +105±0.5V DC.

## 2. H Adjustment

**Purpose:** To get correct horizontal position and size of screen image.

**Symptom of Misadjustment:** Horizontal position and size of screen image may not be properly displayed.

Test point	Adj. Point	Mode	Input
R590	P+/P- buttons	Ext.	---
Tape	M. EQ.	Spec.	
---	Frequency Counter	15.625kHz±75Hz	

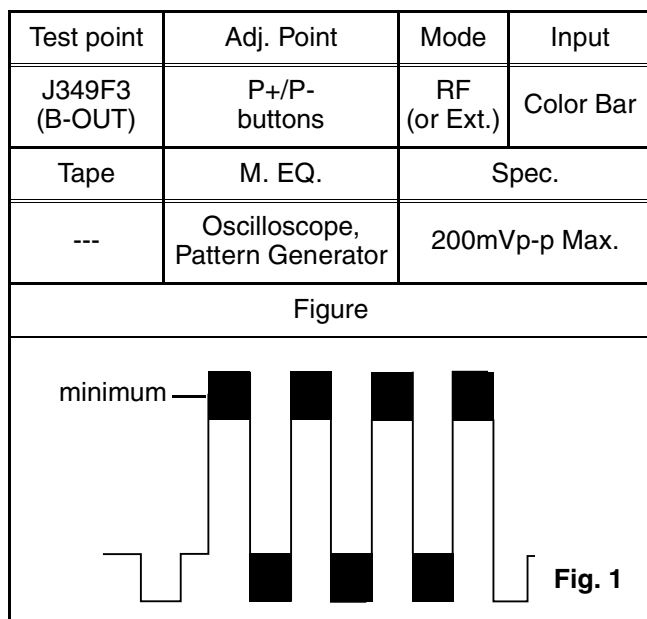
**Note:** R590 --- H.V./Power Supply CBA

1. Connect Frequency Counter to R590.
2. Set the unit to the Ext. mode and no input is necessary. Enter the Service mode.  
(See page 1-6-10.)
3. Operate the unit for at least 20 minutes.
4. Press [2] button on the remote control unit and select H-Adj Mode.
5. Press [P+/P-] buttons on the remote control unit so that the display will change [0] to [7.]  
At this moment, choose display [0] to [7] when the Frequency counter display is closest to 15.625kHz±75Hz.
6. Turn the power off and on again.

### 3. C-Trap Adjustment

**Purpose:** To get minimum leakage of the color signal carrier.

**Symptom of Misadjustment:** If C-Trap Adjustment is incorrect, stripes will appear on the screen.



**Note:** J349F3 (B-Out)--- Main CBA

1. Connect Oscilloscope to J349F3.
2. Input a color bar signal from RF (or Ext.) input. Enter the Service mode. (See page 1-6-10.)
3. Press [0] button on the remote control unit and select C-TRAP Mode.
4. Press [P+/P-] buttons on the remote control unit so that the carrier leakage B-Out (4.43MHz) value becomes minimum on the oscilloscope.
5. Turn the power off and on again.

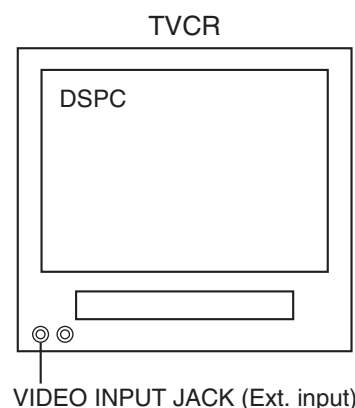
### 4. How to measure the standard V-ENV value of Digital Studio Picture Control

**Purpose:** To set the recording condition appropriate for the recording tape.

**Symptom of Misadjustment:** Recording or playing back picture quality may fall. The picture will be tinted.

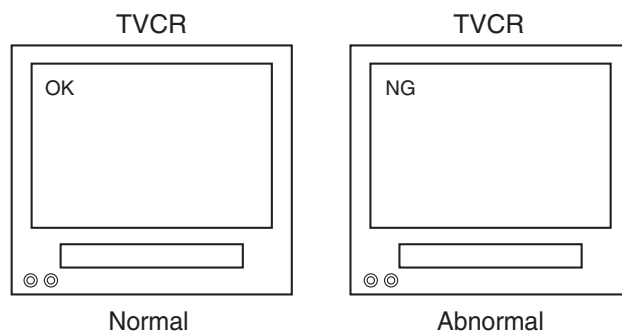
1. Insert a new tape (type: E180) for the DSPC alignment into the TV/VCR.
2. Input the black raster signal from the video input jack (VIDEO-IN).
3. Enter the Service Mode. (See page 1-6-10.)

4. To enter the DSPC mode, press [1] button on the remote control unit. Recording starts automatically and "DSPC" appears on the display.



**Fig. 2**

5. Recording continues for 10 seconds in SP mode.  
**Note:** Since the reference value of LP V-ENV is computed from the reference value of SP V-ENV, there is no need to survey it.
6. The tape is rewinded to the recording start point.
7. The unit enters the play mode automatically and the V-ENV levels of each the reference value of SP mode and the computing value of LP mode are memorized into the EEPROM.
8. "OK" or "NG" appears on upper left corner of the screen with blueback.  
In case of "OK": "OK" (green) is indicated without ejecting tape.  
In case of "NG": "NG" (red) is indicated with ejecting tape.



**Fig. 3**

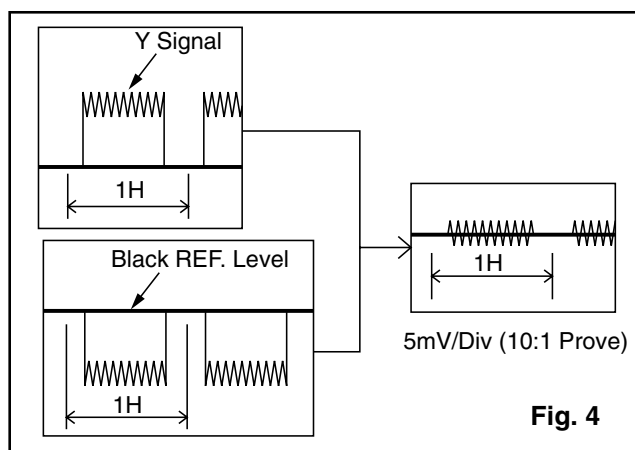
## 5. SECAM Black Level Adjustment

**Purpose:** To set Black Level of the SECAM signal R-Y/B-Y to Ref. level.

**Symptom of Misadjustment:** If Black Level of the SECAM signal R-Y/B-Y is incorrect, the picture is bluish or reddish in grayscale compared with PAL signal.

Test point	Adj. Point	Mode	Input
J361G4	P+/P- buttons	Ext.	SECAM Gray Scale
Tape	M. EQ.	Spec.	
---	Pattern Generator, Analog Oscilloscope (unusable Digital Oscilloscope)	---	

1. Degauss the CRT and allow CRT to operate for 20 minutes before starting the alignment.
2. Input the SECAM Gray Scale signal from Ext. input.
3. Enter the Service Mode. (See page 1-6-10.)
4. To enter the C/D/S mode, press [ $\triangle$  -] on the remote control unit.
5. To select SBR (SECAM Black Level R-Y), press [6] button on the remote control unit.
6. Press [P+/P-] buttons to adjust Y signal to the black ref. level.
7. To select SBB (SECAM Black Level B-Y), press [7] button on the remote control unit.
8. Press [P+/P-] buttons to adjust Y signal to the black ref. level.



## 6. V. Size Adjustment

**Purpose:** To obtain correct vertical height of screen image.

**Symptom of Misadjustment:** If V. Size is incorrect, vertical height of image on the screen may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	P+/P- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-10.) Press [9] button on the remote control unit and select V-S Mode. (Press [9] button then display will change to V-P and V-S).
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [P+/P-] buttons on the remote control unit so that the monoscope pattern is 90±5% of display size and the circle is round.

## 7. V. Shift Adjustment

**Purpose:** To obtain correct vertical position of screen image.

**Symptom of Misadjustment:** If V. position is incorrect, vertical position of image on the screen may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	P+/P- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-10.) Press [9] button on the remote control unit and select V-P Mode. (Press [9] button then display will change to V-P and V-S).
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [P+/P-] buttons on the remote control unit so that the top and bottom of the monoscope pattern are equal to each other.



## 8. H. Shift Adjustment

**Purpose:** To obtain correct horizontal position and size of screen image.

**Symptom of Misadjustment:** Horizontal position and size of screen image may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	P+/P- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-10.)  
Press [8] button on the remote control unit and select H-P Mode.
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [P+/P-] buttons on the remote control unit so that the left and right side of the monoscope pattern are equal to each other.
4. Turn the power off and on again.

## 9. Cut-off Adjustment


**Purpose:** To adjust the beam current of R, G, B, and screen voltage.

**Symptom of Misadjustment:** White color may be reddish, greenish or bluish.

Test point	Adj. Point	Mode	Input
Screen	Screen-Control, P+/P- buttons	RF (or Ext.)	Black Raster
Tape	M. EQ.	Spec.	
---	Pattern Generator	See Reference Notes below	

### Notes:

Screen Control (FBT) --- H.V./Power Supply CBA  
FBT= Fly Back Transformer  
Use the Remote Control Unit

1. Degauss the CRT and allow CRT to operate for 20 minutes before starting the alignment.
2. Set the screen control to minimum position. Input the Black raster signal from RF (or Ext.) input.
3. Enter the Service Mode. (See page 1-6-10.)  
Dimmed horizontal line appears on the CRT.
4. To enter the C/D/S mode, press the [  -] button on the remote control unit.
5. To enter the CUT OFF (R) mode, press [1] button on the remote control unit.
6. Turn the screen control up until dimmed horizontal line appears.
7. Press the [P+/P-] buttons until the horizontal line becomes white.
8. To enter the CUT OFF (G) mode, press [2] button on the remote control unit.
9. Press the [P+/P-] buttons until the horizontal line becomes white.
10. To enter the CUT OFF (B) mode, press [3] button on the remote control unit.
11. Press the [P+/P-] buttons until the horizontal line becomes white.
12. Turn the screen control so that the horizontal line adjusted white looks lightly.
13. Turn the power off and on again.

## 10. White Balance Adjustment

**Purpose:** To mix red, green and blue beams correctly for pure white.

**Symptom of Misadjustment:** White becomes bluish or reddish.

Test point	Adj. Point	Mode	Input
Screen	Screen-Control, P+/P--buttons	RF (or Ext.)	White Raster (APL 100%)
Tape	M. EQ.	Spec.	
---	Pattern Generator, Color analyzer	See below	

Figure

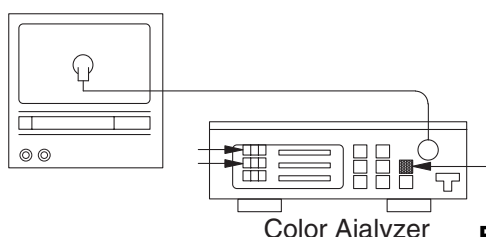


Fig. 5

**Note:** Use remote control unit

1. Operate the unit more than 20 minutes.
2. Face the unit to east. Degauss the CRT using De-gaussing Coil.
3. Input the White Raster (APL 100%).
4. Set the color analyzer to the CHROMA mode and after zero point calibration, bring the optical receptor to the center on the tube surface (CRT).
5. Enter the Service mode. Press [  $\triangle$  - ] button on the remote control.
6. Press [4] button on the remote control unit for Red adjustment. Press [5] button on the remote control unit for Blue adjustment.
7. In each color mode, Press [P+/P--] buttons to adjust the values of color.
8. Adjusting Red and Blue color so that the temperature becomes 8500K ( $x : 290 / y : 300$ )  $\pm 3\%$ .
9. At this time, Re-check that Horizontal line is white. If not, Re-adjust Cut-off Adjustment until the Horizontal Line becomes pure white.
10. Turn off and on again to return to normal mode. Receive APL 100% white signal and Check Chroma temperatures become 8500K ( $x : 290 / y : 300$ )  $\pm 3\%$ .

**Note:** Confirm that Cut Off Adj. is correct after this adjustment, and attempt Cut Off Adj. if needed.

## 11. Sub-Brightness Adjustment

**Purpose:** To get proper brightness.

**Symptom of Misadjustment:** If Sub-Brightness is incorrect, proper brightness cannot be obtained by adjusting the Brightness Control.

Test point	Adj. Point	Mode	Input
Screen	P+/P--buttons	RF (or Ext.)	SYMPTE
Tape	M. EQ.	Spec.	
---	Pattern Generator	See below	

Figure

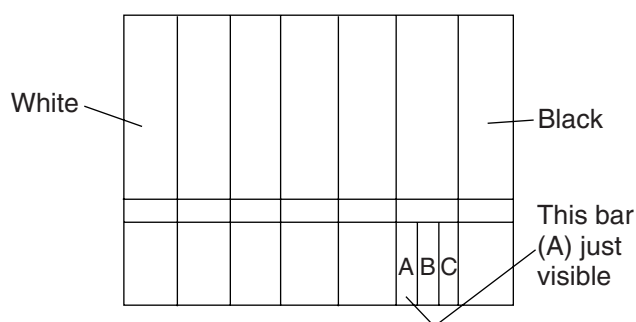


Fig. 6

**Note:** Bar (A) in Fig. 7 --- 0 IRE

1. Enter the Service Mode. (See page 1-6-10.) Then input SYMPTE signal from RF (or Ext.) input and leave it for at least 20 minutes.
2. Press MENU button. (Each time MENU button is pressed, display will change BRT, CNT, COL, TNT, and SHP in that order.) Select BRT and press [P+/P--] buttons so that the bar (A) in Fig. 6 is just visible.
3. Turn the power off and on again.

## 12. Setting for CONTRAST, COLOR, TINT and SHARP Data Values

### General

1. Enter the Service mode. (See page 1-6-10)
2. Press MENU button. (Each time MENU button is pressed, display will change BRT, CNT, COL, TNT, and SHP in that order.)

### CONTRAST (CNT)

1. Press "MENU" button on the remote control unit. Then select CNT display.
2. Press [P+/P-] buttons on the remote control unit so that the value of "CONTRAST" (CNT) becomes 83.

### COLOR (COL)

1. Press "MENU" button on the remote control unit. Then select "COLOR" (COL) display.
2. Press [P+/P-] buttons on the remote control unit so that the value of "COLOR" (COL) becomes 65.

### TINT (TNT)

1. Press "MENU" button on the remote control unit. Then select "TINT" (TNT) display.
2. Press [P+/P-] buttons on the remote control unit so that the value of "TINT" (TNT) becomes 68.

### SHARP (SHP)

1. Press "MENU" button on the remote control unit. Then select "SHARP" (SHP) display.
2. Press [P+/P-] buttons on the remote control unit and select "1."

## 13. Focus Adjustment

**Purpose:** Set the optimum Focus.

**Symptom of Misadjustment:** If Focus Adjustment is incorrect, blurred images are shown on the display.

Test point	Adj. Point	Mode	Input
Screen	Focus Control	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	See below.	

**Note:** Focus VR (FBT) --- H.V./Power Supply CBA

FBT= Fly Back Transformer

1. Operate the unit more than 30 minutes.
2. Face the unit to the East and degauss the CRT using a Degaussing Coil.
3. Input the monoscope pattern.
4. Adjust the Focus Control on the FBT to obtain clear picture.

## 14. Head Switching Position Adjustment

**Purpose:** Determine the Head Switching Position during Playback.

**Symptom of Misadjustment:** May cause Head Switching Noise or Vertical Jitter in the picture.

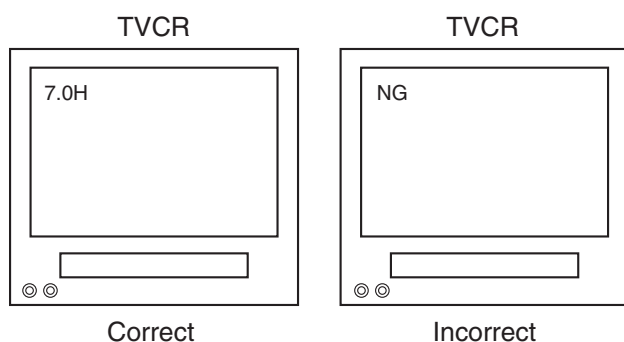
**Note:** Unit reads Head Switching Position automatically and displays it on the screen (Upper Left Corner).

### Manual Adjustment

1. Enter the Service Mode. (See page 1-6-10.)
2. Playback the test tape (9965 000 14514).
3. Press the number [5] button on the remote control unit.
4. The Head Switching position will display on the screen; if adjustment is necessary follow step 4. 7.0H (448 $\mu$ s) is preferable.
5. Press [P+/P-] buttons on the remote control unit if necessary. The value will be changed in 0.5H steps up or down. Adjustable range is up to 9.5H. If the value is beyond adjustable range, the display will change as:  
Lower out of range: 0.0H  
Upper out of range: -.H
6. Turn the power off and on again.

### Auto Adjustment

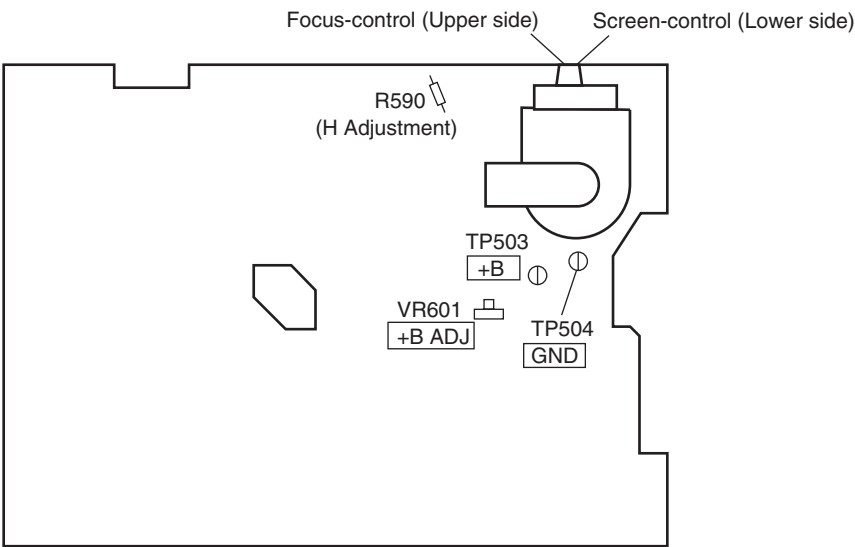
1. Load the test tape (9965 000 14514) that have been recorded the Head Switching Position Value.
2. Enter the service mode.
3. Press [3] button on the remote control unit in the tape stop mode. The unit playback and adjust the Head Switching Position automatically.
4. The adjusting report appears on upper left corner of the screen with blueback.  
In case of adjusting correctly: the Head Switching Position Value recorded in the test tape (9965 000 14514) is indicated with green.  
In case of adjusting incorrectly: "NG" (red) is indicated with ejecting tape.



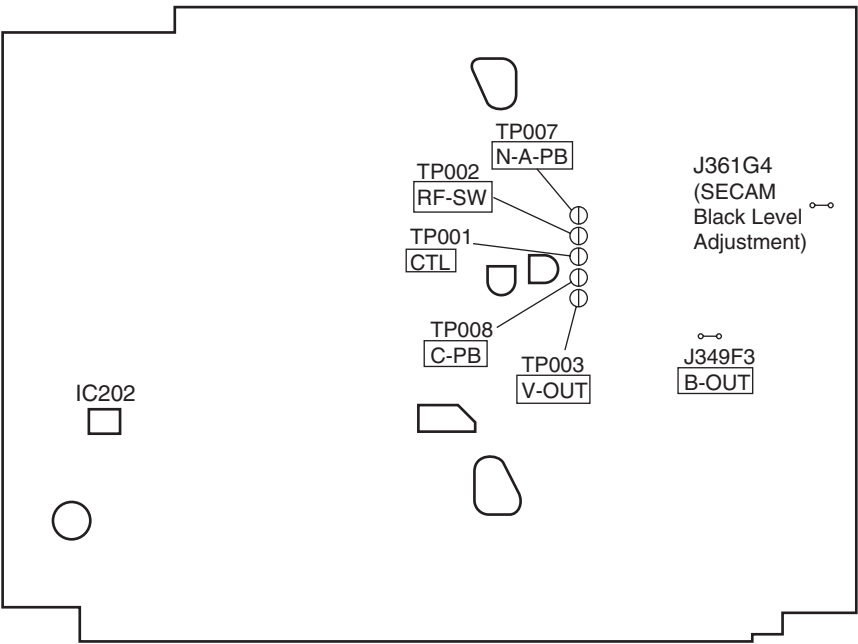
**Fig. 7**

# Adjustment Points and Test Points

## H.V./Power Supply CBA Top View



## Main CBA Top View



### TEST POINT INFORMATION

⊙: Indicates a test point with a jumper wire across a hole in the PCB.

### TEST POINTS NOT USED IN ELECTRICAL ADJUSTMENTS

Test Point	Used in:	Page No.
TP001	Mechanical Alignment Procedures	2-3-3
TP002	Mechanical Alignment Procedures	2-3-3, 2-3-4
TP008	Mechanical Alignment Procedures	2-3-3, 2-3-4
TP503	Electrical Adjustment Instructions	1-6-10
TP504	Electrical Adjustment Instructions	1-6-10

# BLOCK DIAGRAMS

[ 14PV135/ ( 01, 07, 58 ) , 14PV235/ ( 01, 07, 58 ) , 14PV385/ ( 01, 07, 39 ) ]  
Servo/System Control Block Diagram

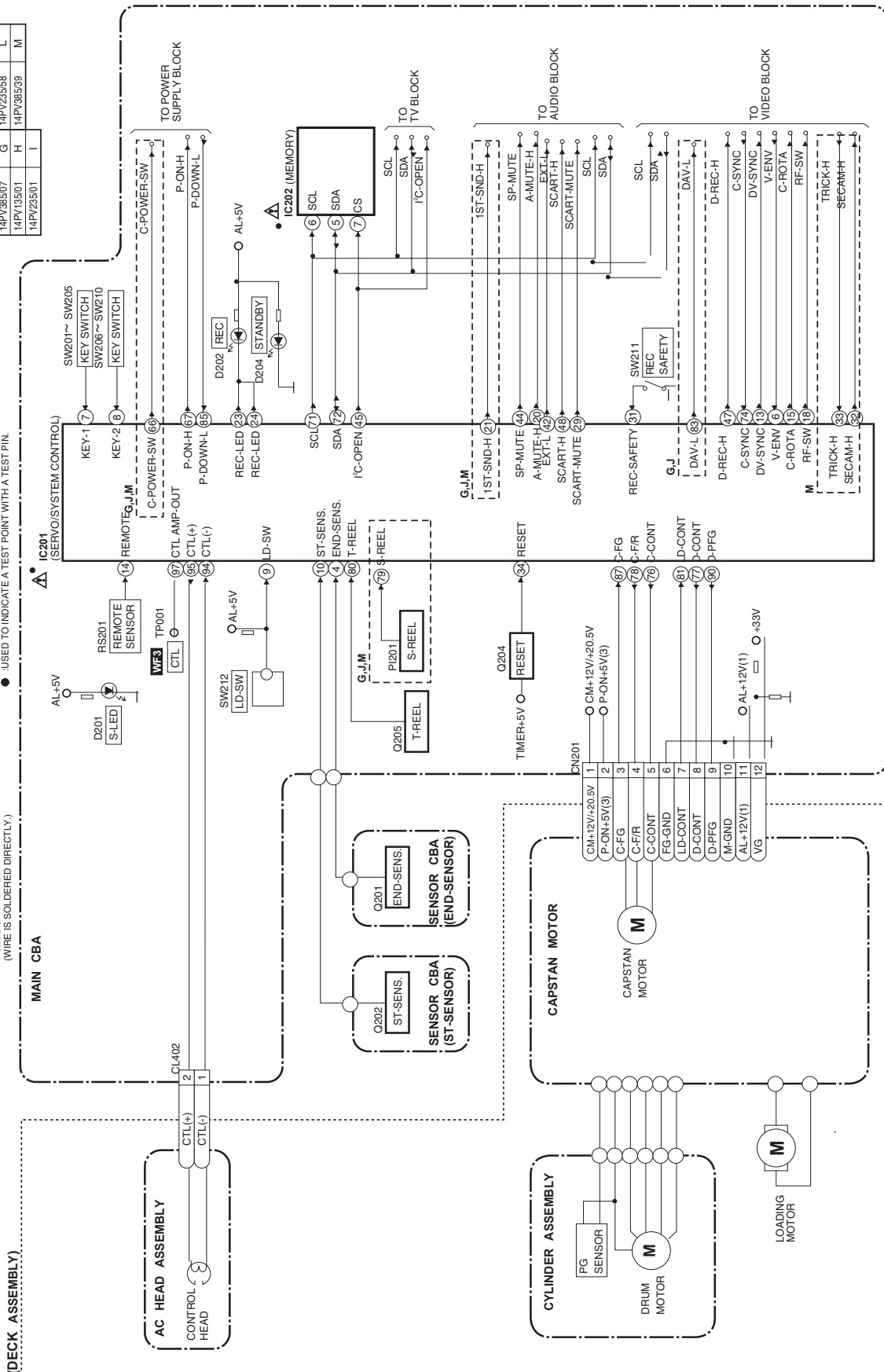
Comparison Chart of Models & Marks

Model	Mark	Model	Mark
14PV13507	E	14PV38501	J
14PV23507	F	14PV13558	K
14PV38507	G	14PV23558	L
14PV13501	H	14PV38539	M
14PV23501	I		

TEST POINT INFORMATION  
 ○ INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.  
 ⊙ INDICATES A TEST POINT WITH A JUMPER WIRE CONNECTED TO A TEST POINT LEAD ON THE POIL SIDE.  
 ● USED TO INDICATE A TEST POINT WITH NO TEST PIN.  
 ● USED TO INDICATE A TEST POINT WITH A TEST PIN.

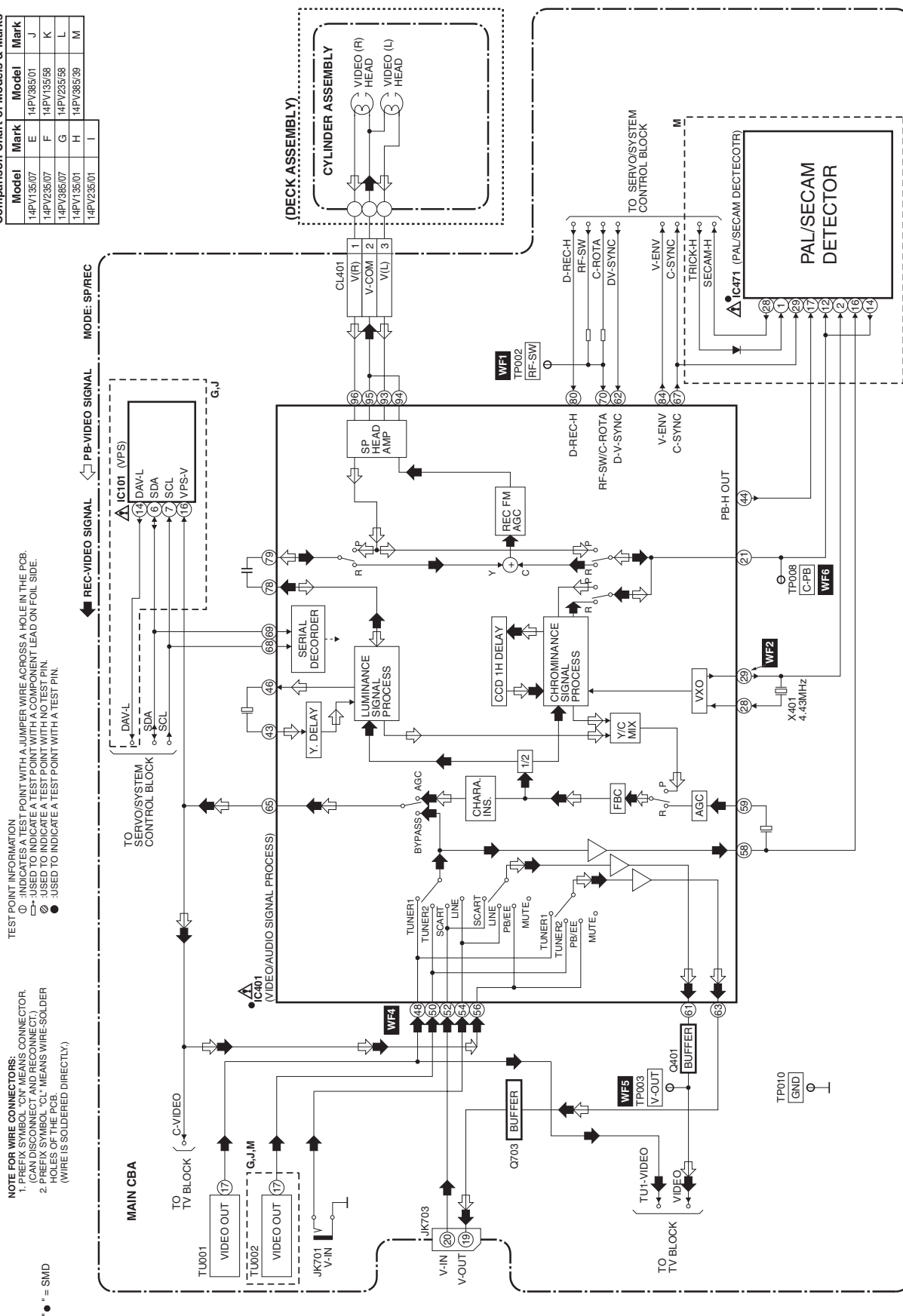
NOTE FOR WIRE CONNECTORS:  
 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
 2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER  
 (WIRE IS SOLDERED DIRECTLY).

"●" = SMD

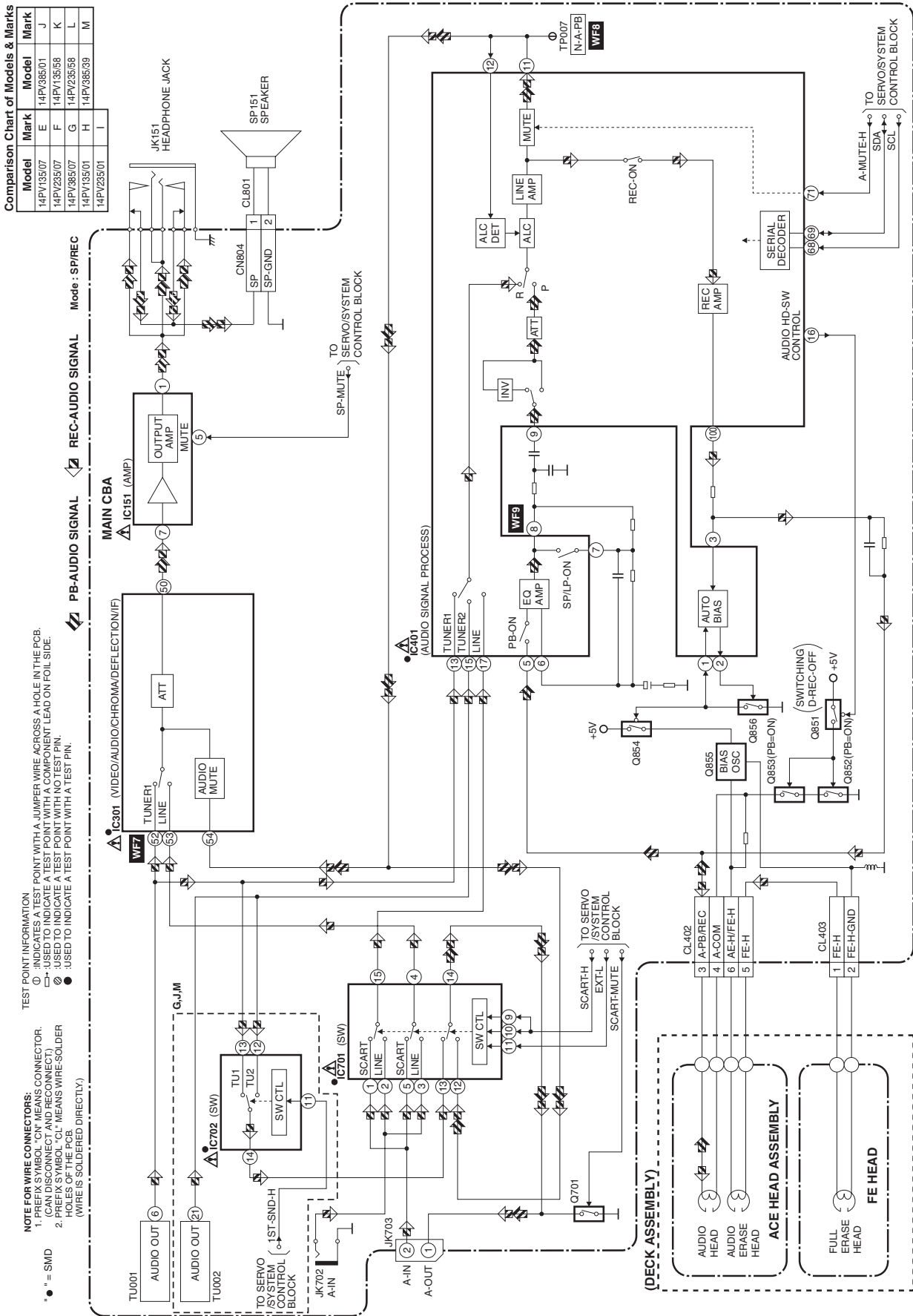


## Video Block Diagram

Comparison Chart of Models & Marks			
Model	Mark	Model	Mark
14PV135/07	E	14PV385/01	J
14PV235/07	F	14PV135/58	K
14PV385/07	G	14PV235/58	L
14PV135/01	H	14PV385/39	M
14PV235/01	I		

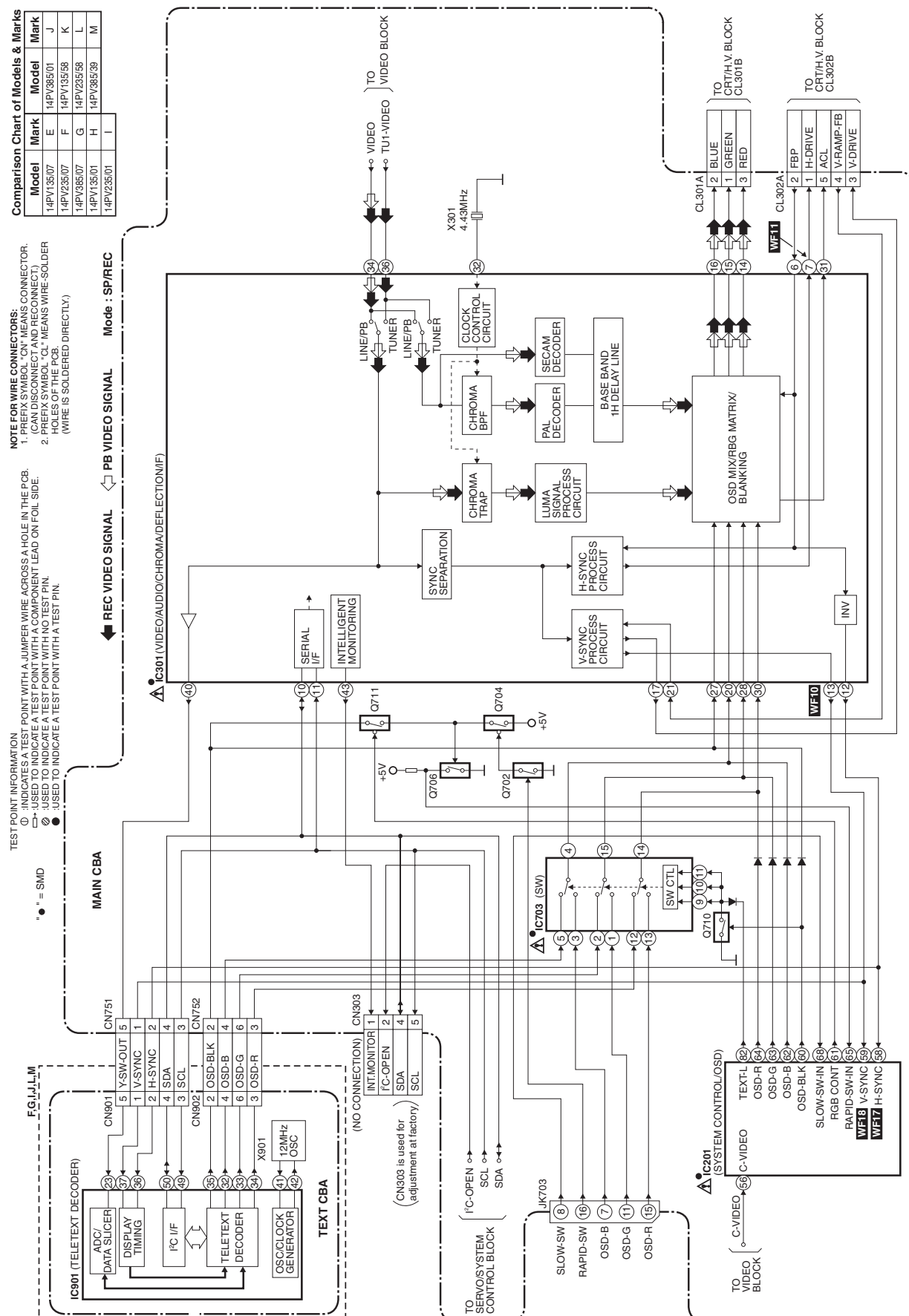


## Audio Block Diagram

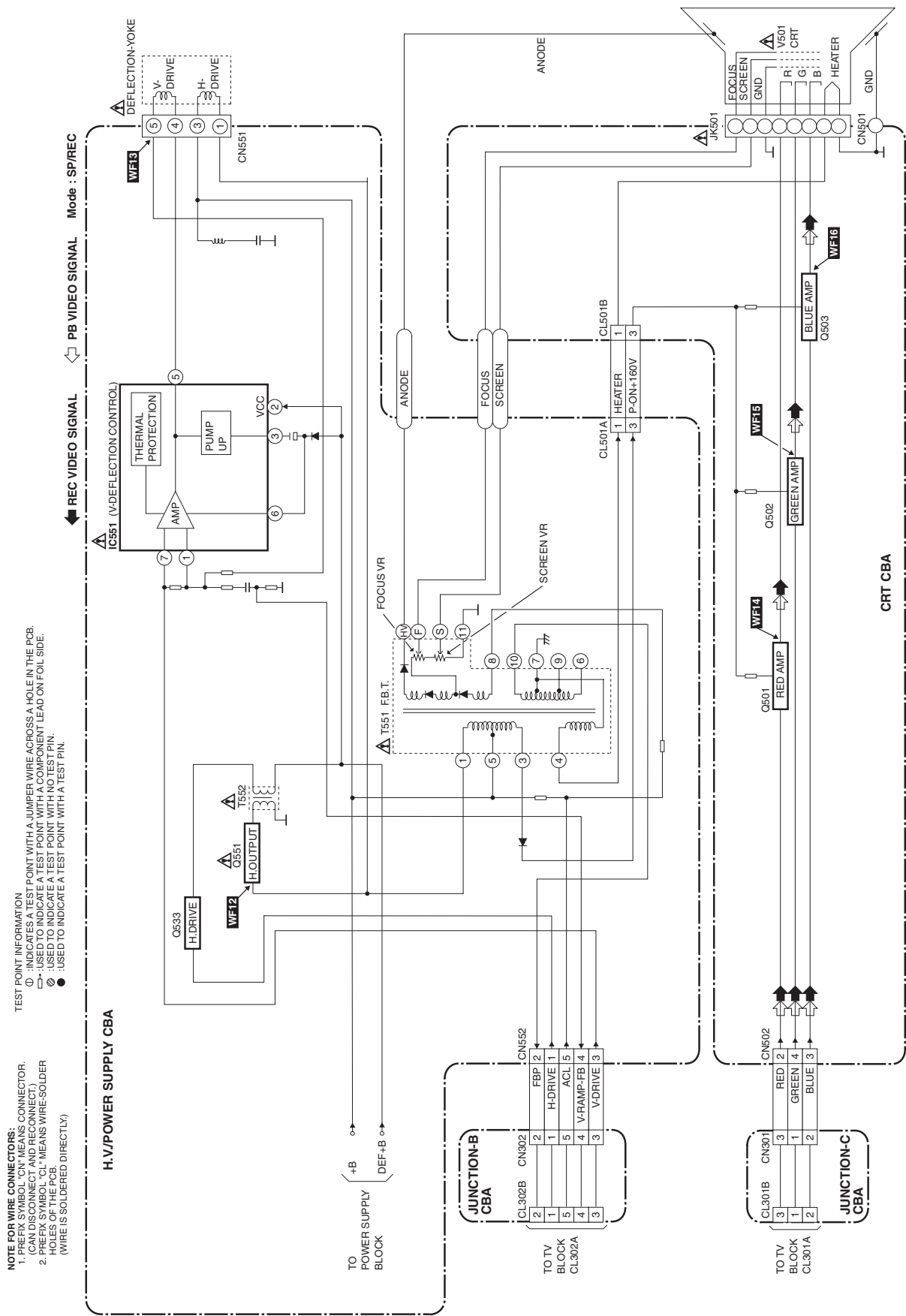




## TV Block Diagram



CRT/H.V. Block Diagram



## Power Supply Block Diagram

**CAUTION !**  
Fixed voltage power supply circuit is used in this unit.  
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.  
Otherwise it may cause some components in the power supply circuit to fail.

**CAUTION**  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
REPLACE ONLY WITH THE SAME TYPE T4A/250V FUSE.

NOTE :

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

## TEST POINT INFORMATION

TEST INFORMATION

- ① INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.
- USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.
- USED TO INDICATE A TEST POINT WITH NO TEST PIN.
- USED TO INDICATE A TEST POINT WITH A TEST PIN.

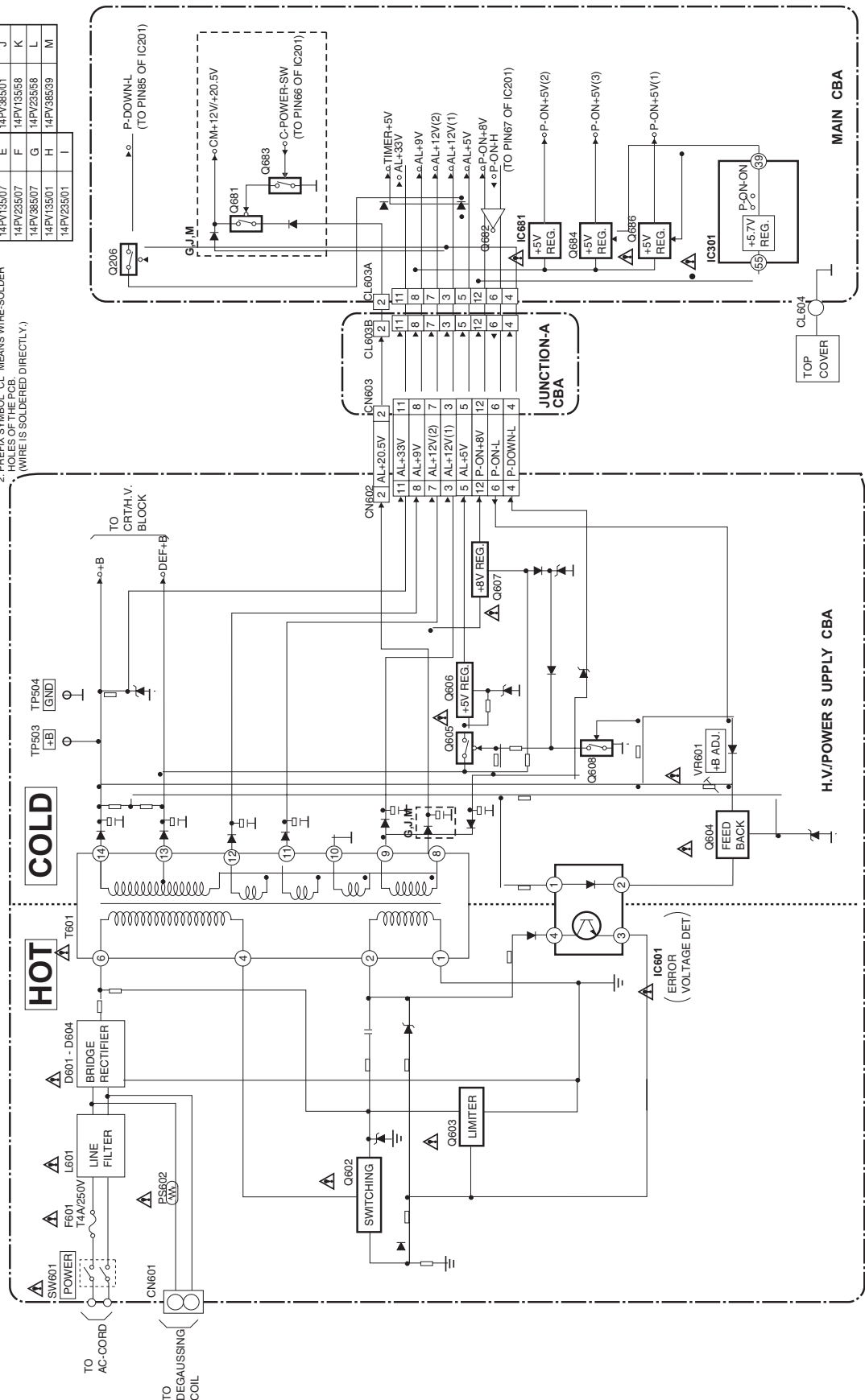
**NOTE FOR WIRE CONNECTORS:**

1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
(CAN DISCONNECT AND RECONNECT.)

2. PREFIX SYMBOL "CL" MEANS WIRE HOLES OF THE PCB.  
(WIRE IS SOLDERED DIRECTLY.)

"●" = SMD

Comparison Chart of Models & Marks			
Model	Mark	Model	Mark
14PV135/07	E	14PV385/01	J
14PV235/07	F	14PV135/58	K
14PV385/07	G	14PV235/58	L
14PV135/01	H	14PV385/39	M
14PV235/01	I		

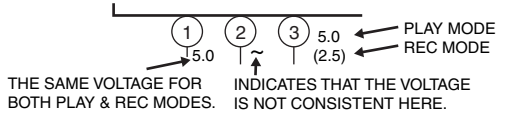


**[ 14PV135/ ( 01, 07, 58 ), 14PV235/ ( 01, 07, 58 ), 14PV385/ ( 01, 07, 39 ) ]**  
**Main 1/5 Schematic Diagram Parts Location Guide**

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CONNECTOR		RESISTORS		RESISTORS	
C203	B-3	CN201	F-4	R220	B-3	R266	D-1
C205	B-3	DIODES		R221	B-3	R267	E-1
C207	B-1	D201	B-3	R222	B-3	R268	E-3
C208	B-1	D202	B-2	R223	B-2	R269	E-3
C209	C-1	D204	B-2	R224	B-2	R270	B-1
C210	C-1	D205	B-1	R226	B-1	R271	B-2
C211	B-1	D206	D-3	R227	B-1	R272	B-3
C212	B-1	D210	D-2	R228	B-1	R273	B-2
C213	B-1	D211	D-2	R229	B-1	R274	B-2
C214	B-1	D212	D-2	R230	B-1	R275	D-2
C217	C-1	D213	A-4	R231	C-1	R276	D-2
C218	C-1	D214	A-4	R232	C-1	R277	D-2
C221	D-2	ICS		R233	C-1	R278	D-2
C222	D-2	IC201	C-3	R234	C-1	R279	D-2
C223	D-2	IC202	D-1	R235	D-2	R280	D-2
C224	D-2	COIL		R236	D-2	R281	C-1
C225	D-2	L201	D-2	R237	D-2	R282	D-2
C226	D-2	TRANSISTORS		R238	D-2	R288	E-1
C227	D-3	Q204	B-1	R239	D-2	R289	E-1
C228	D-3	Q205	D-4	R240	D-2	R884	C-4
C229	D-3	Q206	C-4	R241	D-3	SWITCHES	
C230	E-3	RESISTORS		R242	D-3	SW201	B-4
C231	D-4	R201	B-4	R243	D-3	SW202	A-4
C233	D-4	R202	B-4	R244	D-3	SW203	A-4
C234	D-4	R203	B-3	R248	D-3	SW204	A-4
C235	C-4	R204	B-4	R249	D-3	SW205	A-4
C236	C-4	R205	B-3	R250	D-4	SW206	B-4
C237	C-4	R206	B-3	R251	E-4	SW207	A-4
C238	C-4	R207	B-4	R252	E-4	SW208	A-4
C239	C-4	R208	B-4	R254	C-4	SW209	A-4
C240	C-4	R209	A-4	R255	C-4	SW210	A-4
C241	C-4	R210	A-4	R256	C-4	SW211	B-1
C242	D-4	R211	A-4	R257	B-3	SW212	A-4
C243	D-4	R212	A-4	R258	B-4	TEST POINT	
C244	C-4	R213	B-4	R259	B-4	TP001	C-4
C245	C-4	R214	B-4	R260	A-4	CRYSTAL OSCILLATORS	
C248	B-1	R215	A-4	R261	A-4	X201	C-1
C253	B-2	R216	A-4	R262	A-4	X202	C-1
C254	C-4	R217	A-4	R263	A-4	MISCELLANEOUS	
C255	C-4	R218	B-3	R264	A-4	PI201	D-4
C256	C-1	R219	B-3	R265	D-1	RS201	B-1

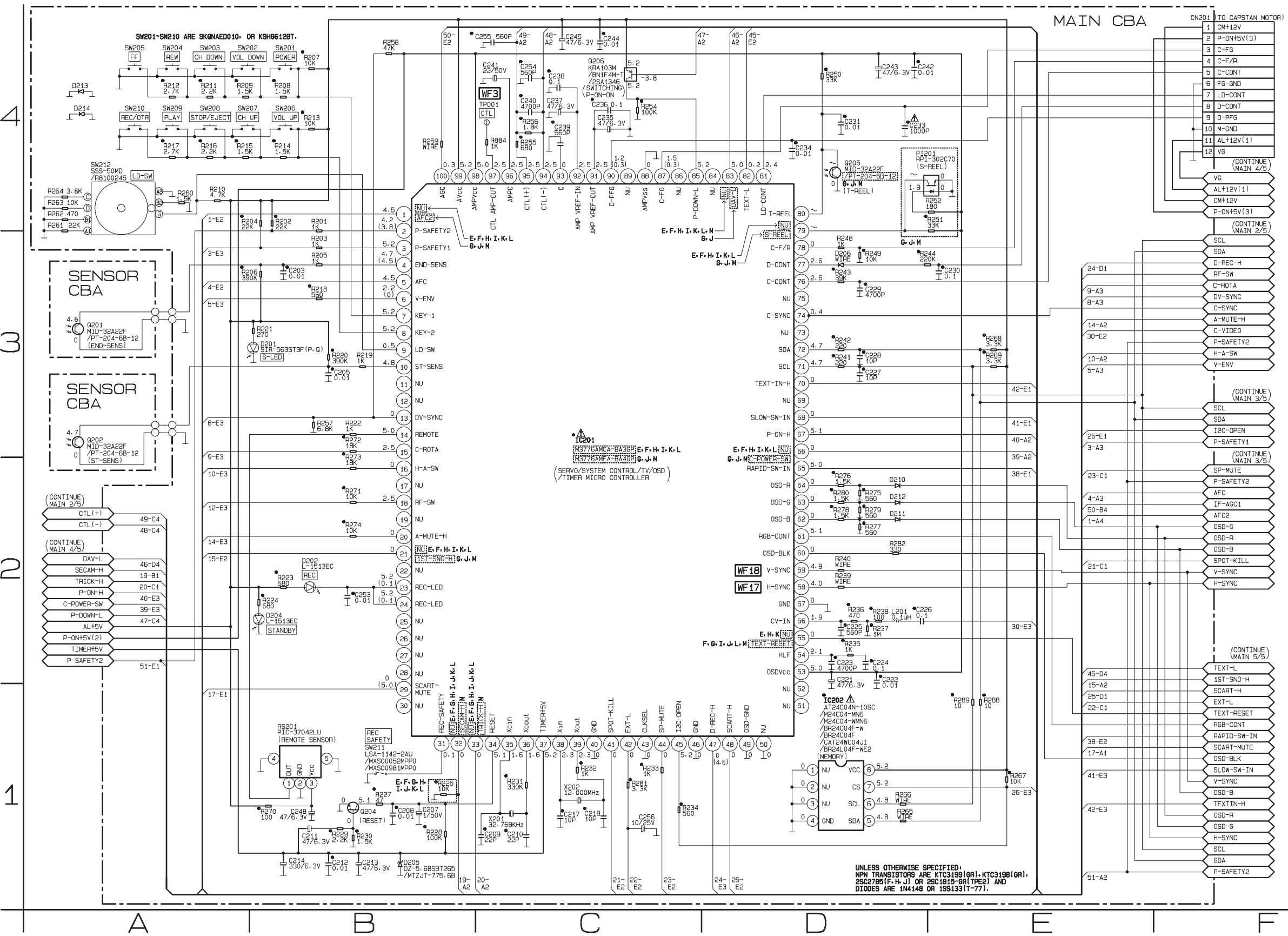
Main 1/5 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



Comparison Chart of Models and Marks

MODEL	MARK
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M



## 1

“●” = SMD

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES. INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.

◀ REC VIDEO SIGNAL    ◀ PB VIDEO SIGNAL    ◀ REC AUDIO SIGNAL    ◀ PB AUDIO SIGNAL



MODEL	MARK
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M

## Main 2/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		COILS		RESISTORS	
C401	J-1	C445	H-2	L854	H-1	R860	H-1
C402	J-1	C452	J-4	TRANSISTORS		R861	I-1
C403	J-1	C851	H-1	Q401	J-4	R862	I-1
C404	J-1	C855	H-1	Q851	H-1	R863	H-1
C405	J-1	C856	G-1	Q852	G-1	R864	I-1
C406	J-1	C857	G-1	Q853	G-1	R865	I-1
C407	J-1	C858	H-1	Q854	H-1	R866	I-1
C408	J-1	C859	H-1	Q855	H-1	R867	I-1
C409	K-2	C860	H-1	Q856	H-1	R869	I-1
C410	K-2	C861	H-2	RESISTORS		R870	I-1
C411	K-2	C862	H-1	R401	J-1	R871	J-2
C412	K-2	C863	I-1	R402	J-1	R873	I-1
C413	K-2	C864	I-1	R405	K-2	R874	I-1
C414	K-2	C865	I-1	R406	K-2	R875	I-1
C415	K-3	C866	I-1	R407	K-3	R876	I-1
C416	K-3	C867	I-1	R408	K-4	R877	I-1
C417	K-3	C869	I-1	R409	K-4	R878	H-2
C418	K-3	C870	I-1	R410	J-4	R879	H-2
C419	K-3	C871	I-1	R411	J-4	CRYSTAL OSCILATOR	
C420	K-3	C872	J-1	R412	I-4	X401	J-2
C421	K-3	C873	I-1	R413	I-4	TEST POINTS	
C422	K-3	C874	I-1	R414	I-4	TP002	I-4
C424	K-4	C875	I-1	R415	H-4	TP003	K-4
C425	J-4	C876	J-1	R416	H-4	TP007	I-1
C426	K-4	C877	J-1	R418	H-3	TP008	J-1
C427	J-4	CONNECTORS		R420	H-3	TP010	K-1
C430	H-4	CL401	G-3	R422	K-4		
C431	J-4	CL402	G-2	R423	K-4		
C432	J-4	CL403	G-1	R424	H-4		
C433	J-4	DIODES		R425	I-4		
C434	J-4	D401	K-3	R426	I-4		
C435	I-4	D402	H-4	R851	H-1		
C436	H-4	IC		R852	H-1		
C438	H-4	IC401	H-2	R853	H-1		
C440	H-4	COILS		R854	H-1		
C441	H-4	L401	K-3	R856	H-1		
C442	H-3	L402	H-3	R857	G-1		
C443	H-3	L403	H-4	R858	G-1		
C444	H-2	L852	H-1	R859	H-1		

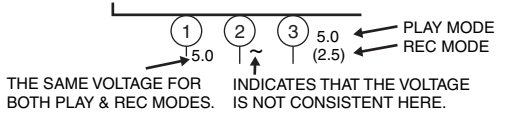
## Main 3/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		RESISTORS	
C001	R-4	C331	N-2	R156	N-4
C002	Q-4	C332	N-3	R157	P-4
C005	Q-3	C333	N-2	R301	N-1
C006	Q-3	C334	N-2	R302	N-1
C008	Q-3	C336	P-3	R303	N-1
C009	R-3	C338	M-3	R304	O-1
C014	Q-3	C340	P-1	R305	O-1
C151	O-4	C341	N-2	R306	O-1
C152	N-4	C344	M-3	R307	O-1
C154	O-4	C350	N-3	R308	O-1
C155	P-4	CONNECTORS		R309	O-1
C156	P-4	CL301A	R-1	R310	P-1
C157	P-4	CL302A	M-4	R311	P-3
C160	P-4	CN303	M-3	R312	O-1
C301	N-1	CN804	M-4	R313	P-2
C302	N-1	DIODES		R314	P-2
C303	N-1	D151	O-4	R315	P-2
C304	N-1	D152	O-4	R316	P-2
C305	N-1	D302	O-1	R317	P-3
C307	O-3	D303	O-1	R318	P-3
C308	P-2	D304	O-1	R320	O-3
C309	P-2	D305	P-3	R321	N-3
C310	P-2	D306	P-2	R322	N-3
C311	P-2	ICS		R323	N-3
C312	P-2	IC151	O-4	R324	N-3
C313	P-2	IC301	N-1	R325	N-2
C314	P-2	COILS		R326	N-2
C315	P-2	L001	Q-4	R327	M-2
C316	P-3	L151	N-4	R332	M-3
C317	P-3	L152	N-4	R333	M-3
C318	O-3	L302	P-2	R334	M-3
C319	P-3	L303	P-3	R335	N-3
C320	P-3	L304	N-1	R336	O-1
C321	O-3	L305	O-3	R339	O-1
C322	O-3	RESISTORS		R340	O-1
C323	N-3	R003	Q-3	CRYSTAL OSCILATOR	
C324	N-3	R004	Q-3	X301	P-3
C325	N-3	R151	M-4	MISCELLANEOUS	
C326	N-3	R152	O-4	JK151	M-4
C327	N-3	R153	P-4	TU001	R-4
C328	N-3	R154	P-4	TU002	Q-4
C330	N-2	R155	N-4		



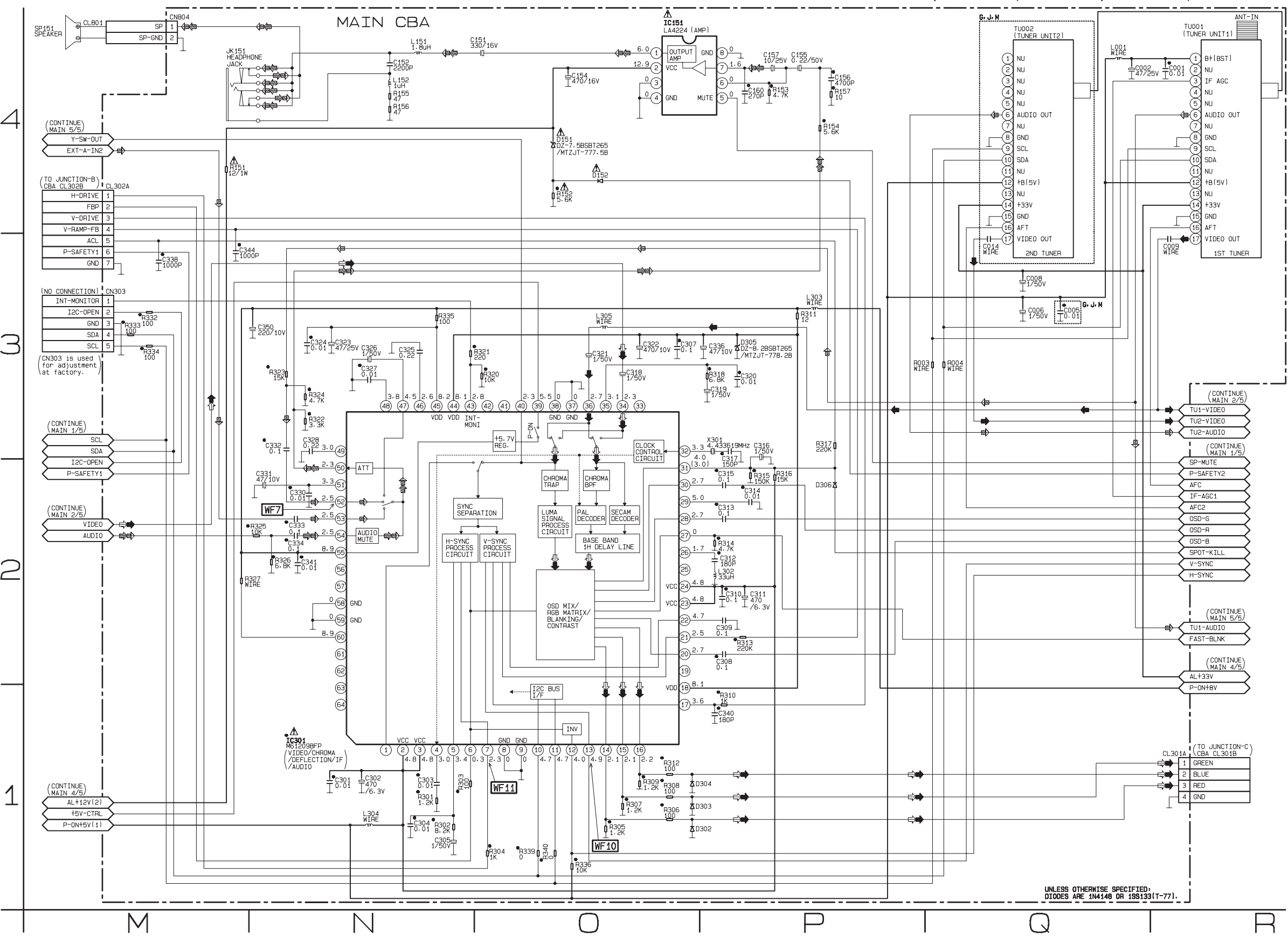
Main 3/5 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:

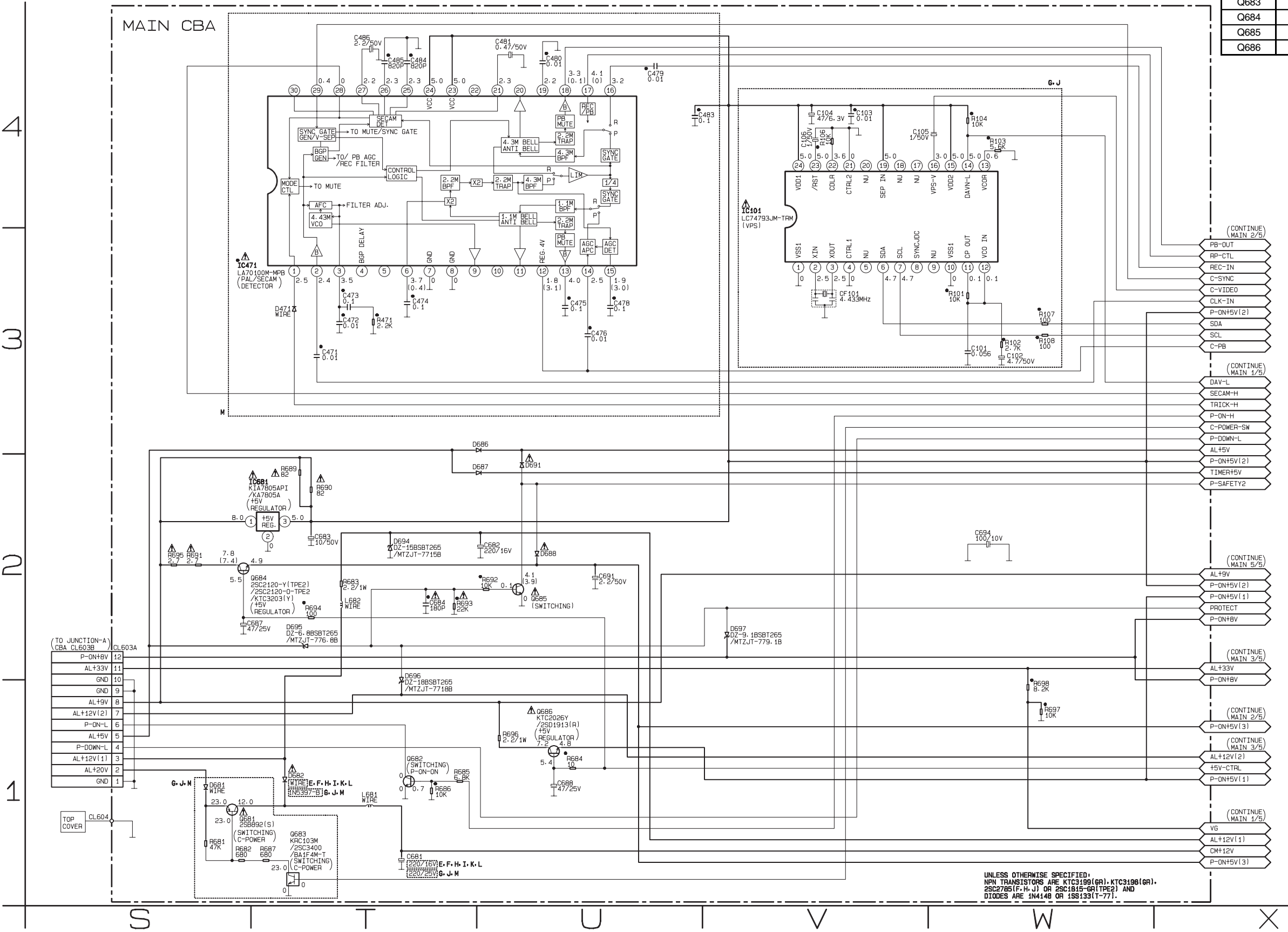


Comparison Chart of Models and Marks

MODEL	MARK
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M



Main 4/5 Schematic Diagram



VOLTAGE CHART (Power off mode)			
Ref. No.	1	2	3
IC681	3.2	0	1.9
Ref. No.	E	C	B
Q681	9.8	5.9	9.7
Q682	0	7.9	0
Q683	0	9.7	0
Q684	0.1	3.1	0
Q685	0	0.6	0
Q686	0	3.1	0

Comparison Chart of Models and Marks	
MODEL	MARK
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M

## Main 4/5 Schematic Diagram Parts Location Guide

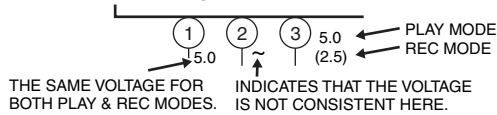
Ref No.	Position	Ref No.	Position
CAPACITORS		ICS	
C101	W-3	IC101	V-4
C102	W-3	IC471	T-3
C103	V-4	IC681	T-2
C104	V-4	COILS	
C105	V-4	L681	T-1
C106	V-4	L682	T-2
C471	T-3	TRANSISTORS	
C472	T-3	Q681	S-1
C473	T-3	Q682	T-1
C474	T-3	Q683	T-1
C475	U-3	Q684	S-2
C476	U-3	Q685	U-2
C478	U-3	Q686	U-1
C479	U-4	RESISTORS	
C480	U-4	R101	W-3
C481	U-4	R102	W-3
C483	U-3	R103	W-4
C484	T-4	R104	W-4
C485	T-4	R106	V-4
C486	T-4	R107	W-3
C681	T-1	R108	W-3
C682	U-2	R471	T-3
C683	T-2	R681	S-1
C684	T-2	R682	S-1
C687	S-2	R683	T-2
C688	U-1	R684	U-1
C691	U-2	R685	T-1
C694	W-2	R686	T-1
CONNECTORS		R687	T-1
CL603A	S-2	R689	T-2
CL604	S-1	R690	T-2
DIODES		R691	S-2
D471	T-3	R692	U-2
D681	S-1	R693	T-2
D682	T-1	R694	T-2
D686	U-3	R695	S-2
D687	U-2	R696	T-1
D688	U-2	R697	W-1
D691	U-2	R698	W-1
D694	T-2	MISCELLANEOUS	
D695	T-2	CF101	V-3
D696	T-2		
D697	V-2		

## Main 5/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position
CAPACITORS		RESISTORS	
C703	BB-2	R702	Y-1
C707	BB-4	R703	CC-4
C708	BB-4	R704	CC-4
C709	BB-4	R707	BB-4
C710	CC-4	R709	CC-4
C711	CC-3	R710	BB-4
C713	CC-3	R711	AA-3
C715	Z-1	R712	CC-4
C716	BB-4	R714	CC-4
C719	BB-1	R723	CC-4
C723	BB-3	R724	CC-4
C724	AA-3	R725	CC-4
CONNECTORS		R726	CC-4
CN751	Y-4	R727	CC-3
CN752	Y-2	R728	BB-4
DIODES		R729	BB-4
D705	BB-4	R730	BB-4
D706	CC-4	R731	CC-3
D707	BB-4	R732	CC-3
D709	CC-4	R733	CC-3
D711	CC-3	R737	CC-3
D712	AA-3	R738	BB-2
D713	Z-1	R739	CC-2
D715	BB-4	R740	AA-2
D716	CC-3	R741	Z-1
ICS		R742	AA-2
IC701	CC-2	R743	AA-2
IC702	BB-2	R744	AA-2
IC703	AA-2	R745	AA-2
COILS		R746	AA-2
L701	CC-3	R747	AA-2
L702	CC-3	R748	AA-2
TRANSISTORS		R749	CC-2
Q701	BB-3	R751	Y-2
Q702	CC-4	R752	BB-3
Q703	CC-3	R753	Y-2
Q704	BB-4	R754	BB-3
Q705	CC-3	R755	AA-3
Q706	BB-4	R756	BB-4
Q707	AA-2	R757	BB-4
Q708	AA-2	TEST POINT	
Q709	BB-2	TP009	BB-3
Q710	BB-3	MISCELLANEOUS	
Q711	BB-4	JK701	Y-1
RESISTORS		JK702	Y-1
R701	Y-1	JK703	CC-4

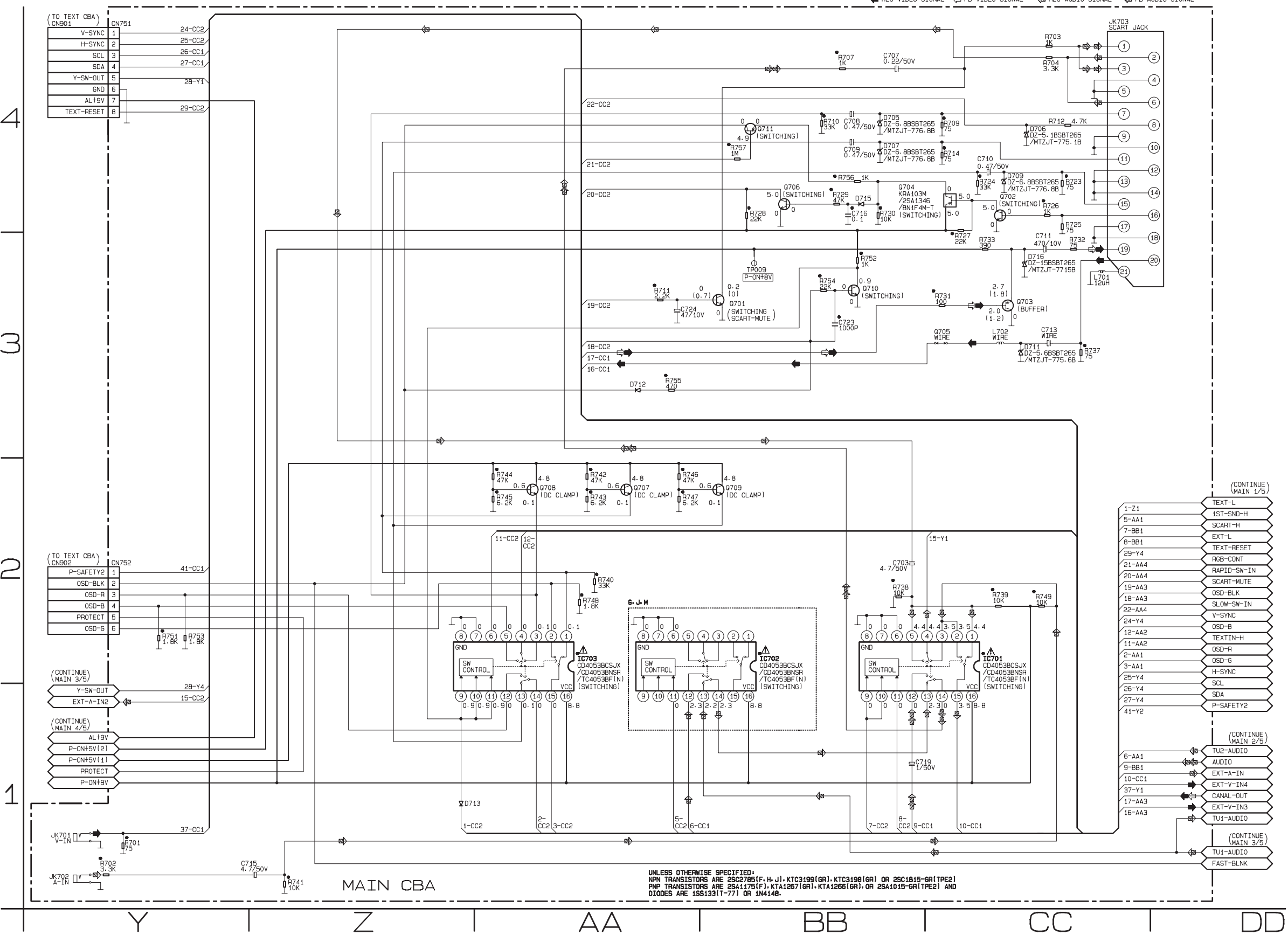
Main 5/5 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



Comparison Chart of Models and Marks

MODEL	MARK
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M



CRT Schematic Diagram

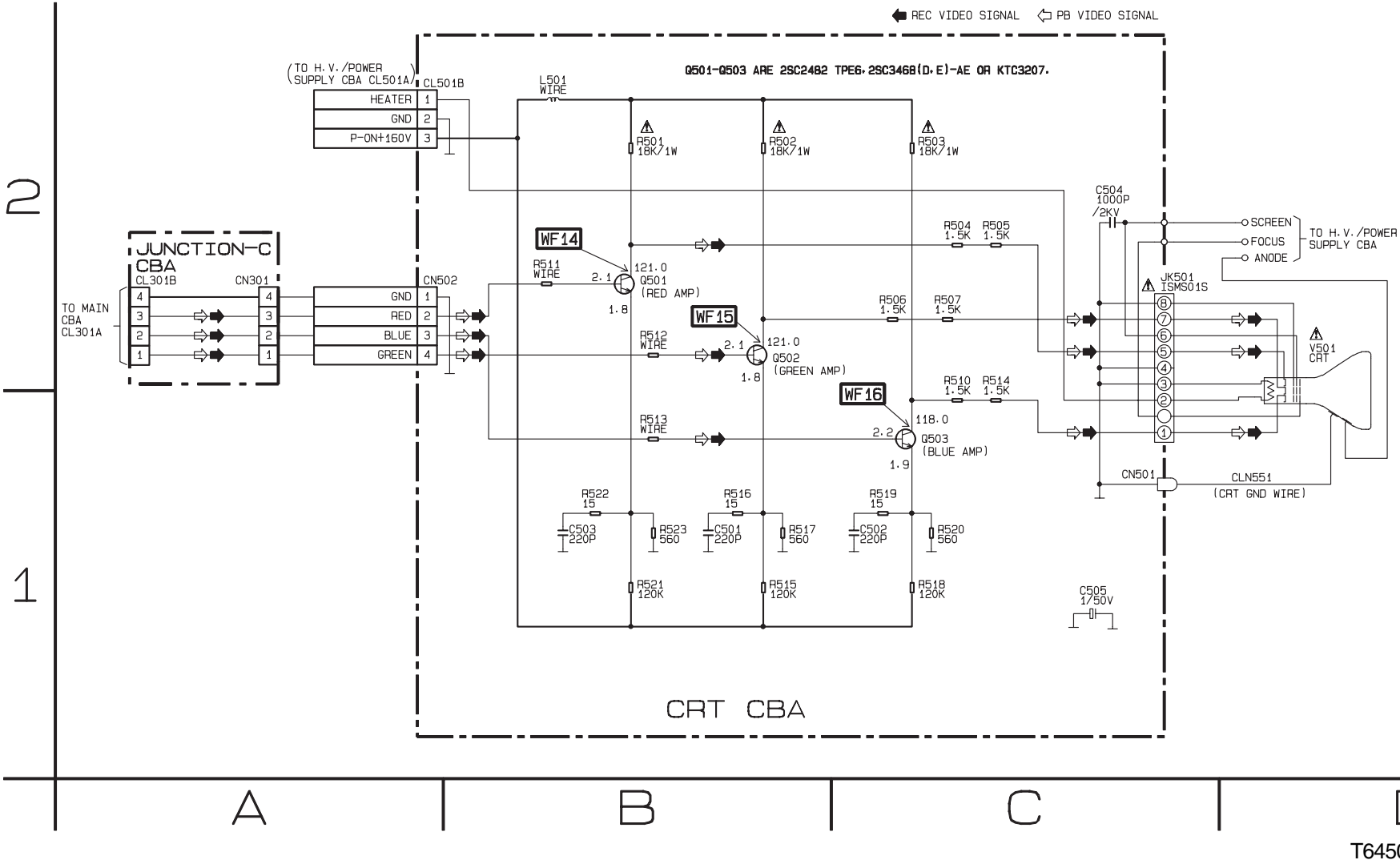
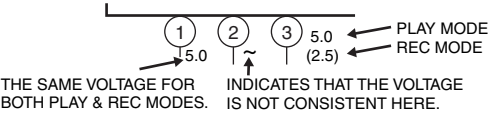
H.V./Power Supply 1/2 Schematic Diagram Parts Location Guide

CRT SCHEMATIC DIAGRAM PARTS LOCATION GUIDE

Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		TRANSISTORS		RESISTORS	
C501	B-1	Q502	B-2	R513	B-1
C502	C-1	Q503	C-1	R514	C-1
C503	B-1	RESISTORS		R515	B-1
C504	C-2	R501	B-2	R516	B-1
C505	C-1	R502	B-2	R517	B-1
CONNECTORS		R503	C-2	R518	C-1
CL501B	A-2	R504	C-2	R519	C-1
CN501	C-1	R505	C-2	R520	C-1
CN502	A-2	R506	C-2	R521	B-1
COIL		R507	C-2	R522	B-1
L501	B-2	R510	C-1	R523	B-1
TRANSISTORS		R511	B-2	MISCELLANEOUS	
Q501	B-2	R512	B-2	JK501	C-2

Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES		RESISTORS	
C602	B-1	D627	C-1	R632	C-2
C604	A-1	D629	D-3	R633	C-1
C611	A-2	D630	D-3	R634	C-1
C613	B-3	D631	D-2	R635	C-2
C614	A-3	D634	D-2	R636	C-1
C615	B-2	D635	D-2	R637	C-1
C616	A-3	D636	D-1	R638	C-2
C617	C-2	D637	D-1	R639	C-2
C618	C-2	D638	D-2	R640	D-3
C619	C-3	D641	C-3	R641	D-3
C621	C-3	D642	D-3	R642	D-2
C622	C-3	IC		R643	D-3
C624	C-2	IC601	B-2	R644	D-3
C625	C-3	COILS		R645	C-2
C626	C-3	L601	B-1	R646	D-3
C627	C-3	L603	C-3	R647	D-3
C629	D-3	TRANSISTORS		R649	D-2
C630	E-3	Q602	A-3	R651	D-2
C632	D-2	Q603	B-2	R652	D-3
C633	D-2	Q604	B-2	R653	D-2
C634	D-1	Q605	D-3	R654	C-2
C636	C-3	Q606	D-3	R655	C-1
CONNECTORS		Q607	D-2	R656	C-1
CN601	A-2	Q608	D-2	R657	D-1
CN602	E-3	RESISTORS		R658	C-2
DIODES		R601	A-1	R659	C-2
D601	B-2	R602	B-1	R660	D-3
D602	B-2	R603	B-1	R661	C-1
D603	B-2	R604	B-2	R662	B-3
D604	B-2	R605	B-2	R663	D-3
D605	B-2	R611	B-3	SWITCH	
D609	B-2	R612	B-3	SW601	A-1
D610	B-3	R613	A-2	MISCELLANEOUS	
D612	A-2	R615	B-2	BC602	A-3
D613	C-2	R616	A-2	BC604	C-3
D614	C-2	R617	A-2	BC605	C-3
D615	C-2	R618	B-2	F601	A-1
D616	E-2	R619	B-2	PS602	A-2
D617	C-3	R620	B-3	SA601	A-1
D618	C-3	R621	B-3	T601	B-3
D619	B-3	R622	B-3	TM601	A-1
D620	C-3	R624	B-3	TM602	A-1
D622	C-1	R625	C-2	VARIABLE RESISTOR	
D623	C-1	R626	C-1	VR601	C-2
D624	C-1	R627	B-2		
D625	C-1	R628	C-3		
D626	C-3	R631	C-2		

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:





H.V./Power Supply 1/2 Schematic Diagram

Comparison Chart of Models and Marks

MODEL	MARK
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M

CAUTION !

Fixed voltage ( or Auto voltage selectable ) power supply circuit is used in this unit.  
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.  
Otherwise it may cause some components in the power supply circuit to fail.

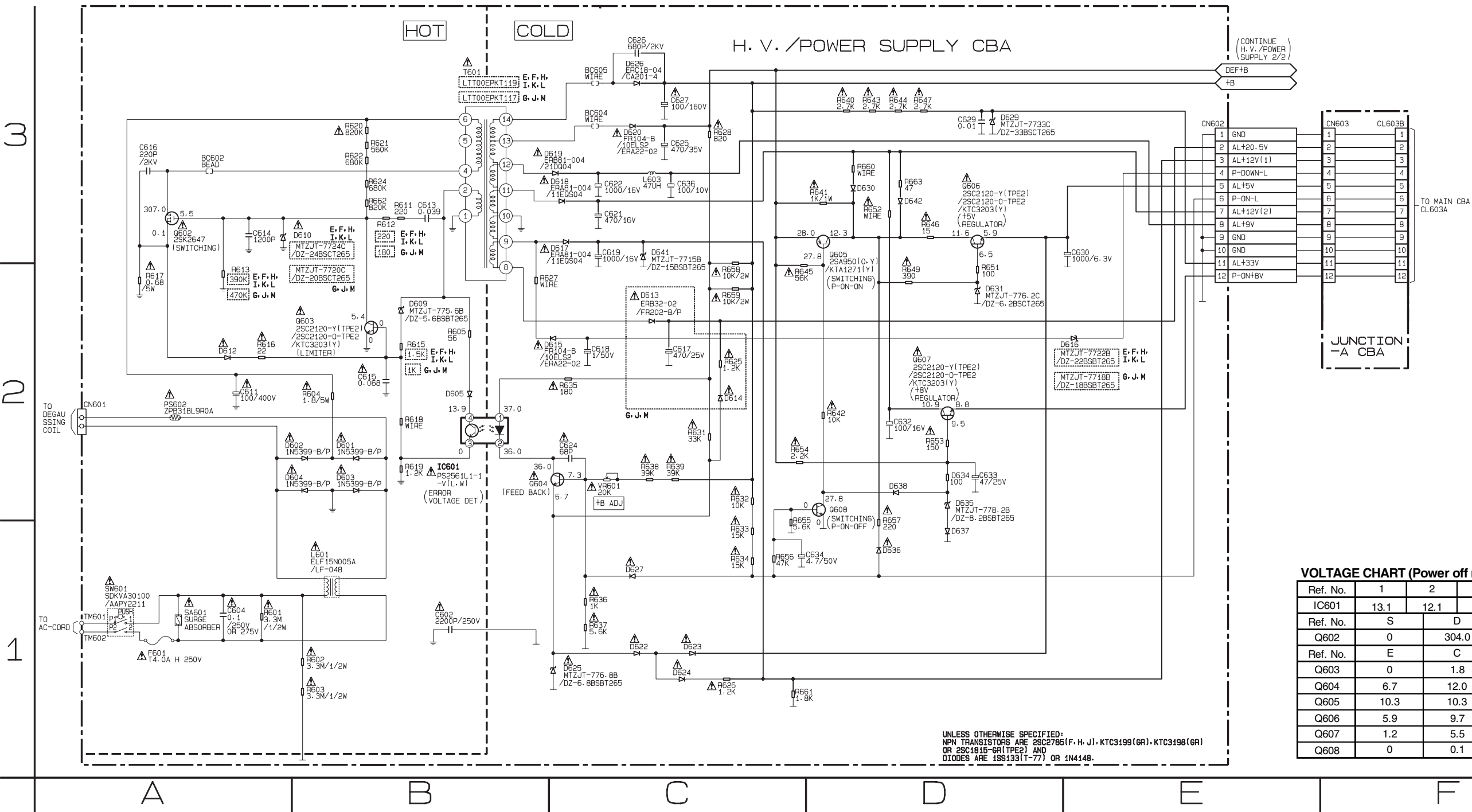
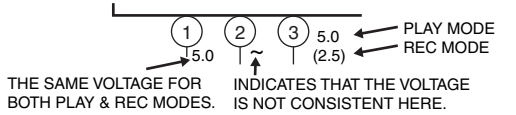
CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
REPLACE ONLY WITH THE SAME TYPE FUSE.

NOTE :

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



VOLTAGE CHART (Power off mode)

Ref. No.	1	2	3	4
IC601	13.1	12.1	0.2	1.6
Ref. No.	S	D	G	
Q602	0	304.0	1.8	
Ref. No.	E	C	B	
Q603	0	1.8	0.2	
Q604	6.7	12.0	7.3	
Q605	10.3	10.3	9.6	
Q606	5.9	9.7	6.5	
Q607	1.2	5.5	1.2	
Q608	0	0.1	0.7	

UNLESS OTHERWISE SPECIFIED:  
NPN TRANSISTORS ARE 2SC2785(F, H, J), KTC3199(8R), KTC3198(8R)  
OR 2SC1815-GR(TPE2) AND  
DIODES ARE 1SS133(T-77) OR 1N4148.

H.V./Power Supply 2/2 Schematic Diagram

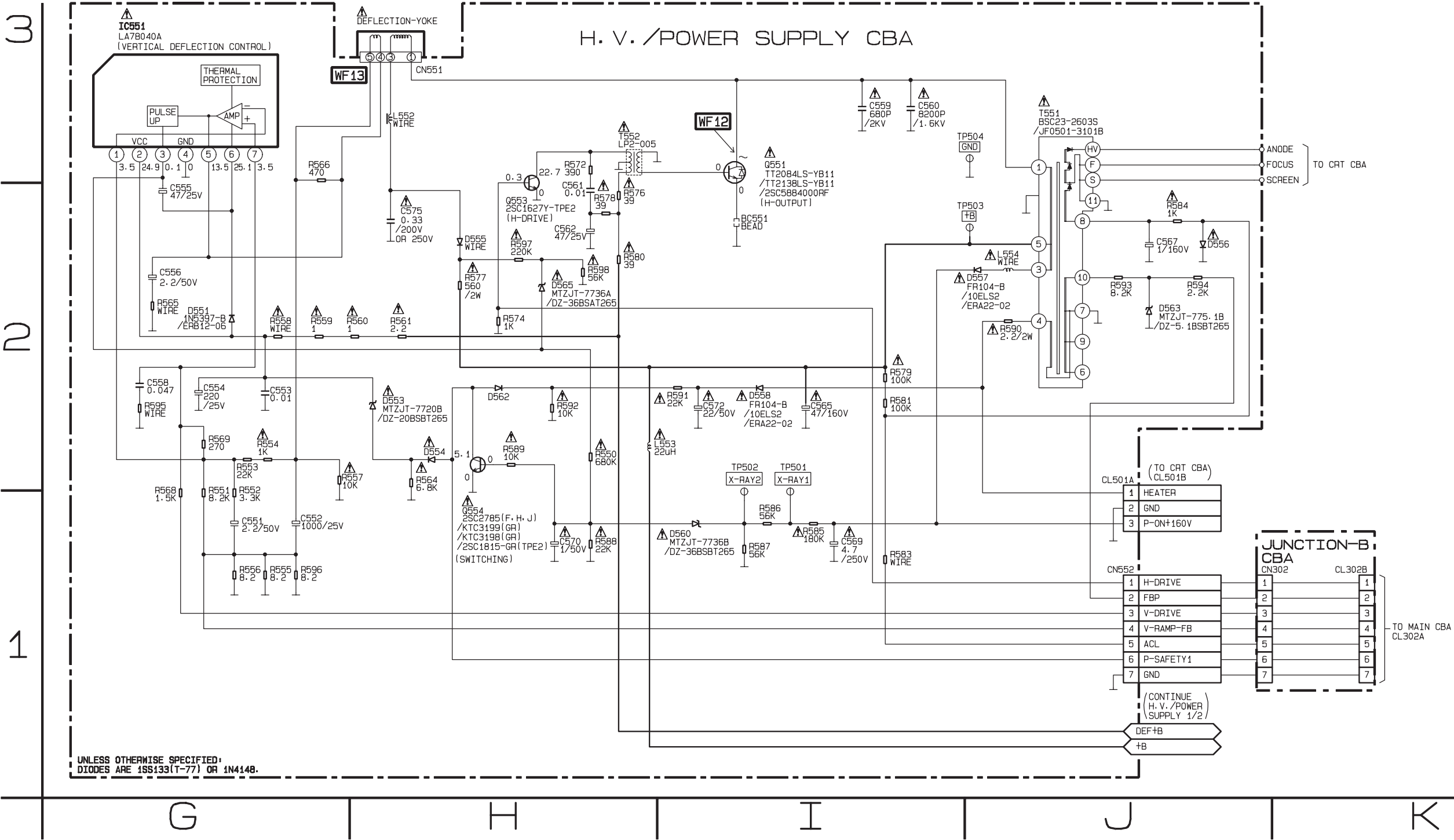
H.V./POWER SUPPLY 2/2 SCHEMATIC DIAGRAM PARTS LOCATION GUIDE

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		DIODES		TRANSISTORS		RESISTORS		RESISTORS	
C551	G-1	C570	H-1	D558	I-2	Q554	H-1	R564	H-2	R584	J-2
C552	G-1	C572	I-2	D560	I-1	RESISTORS		R565	G-2	R585	I-1
C553	G-2	C575	H-2	D562	H-2	R550	H-2	R566	G-3	R586	I-1
C554	G-2	CONNECTORS		D563	J-2	R551	G-1	R568	G-1	R587	I-1
C555	G-2	CL501A	J-2	D565	H-2	R552	G-1	R569	G-2	R588	H-1
C556	G-2	CN551	H-3	IC		R553	G-2	R572	H-3	R589	H-2
C558	G-2	CN552	J-1	IC551	G-3	R554	G-2	R574	H-2	R590	J-2
C559	I-3	DIODES		COILS		R555	G-1	R576	H-2	R591	I-2
C560	I-3	D551	G-2	L552	H-3	R556	G-1	R577	H-2	R592	H-2
C561	H-2	D553	H-2	L553	I-2	R557	G-2	R578	H-2	R593	J-2
C562	H-2	D554	H-2	L554	J-2	R558	G-2	R579	I-2	R594	J-2
C565	I-2	D555	H-2	TRANSISTORS		R559	G-2	R580	H-2	R595	G-2
C567	J-2	D556	J-2	Q551	I-2	R560	H-2	R581	I-2	R596	G-1
C569	I-1	D557	J-2	Q553	H-2	R561	H-2	R583	I-1	R597	H-2

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:

1 2 3 5.0 5.0 (2.5) ← PLAY MODE  
← REC MODE

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES. INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.



UNLESS OTHERWISE SPECIFIED:  
DIODES ARE 1SS133(T-77) OR 1N4148.



## WIRING DIAGRAM

Model	Mark	Model	Mark
14PV135/07	E	14PV385/01	J
14PV235/07	F	14PV135/58	K
14PV385/07	G	14PV235/58	L
14PV135/01	H	14PV385/39	M
14PV235/01	I		



**[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58) ]**

1. EJECT (POWER OFF) -> CASSETTE IN (POWER ON) -> STOP(B) -> STOP(A) -> PLAY -> RS -> FS -> PLAY -> STILL(N-CANCEL) -> PLAY -> STOP(A)

The diagram illustrates the timing of various signals during the cassette deck's operation. The signals are categorized into three main groups: Power/Status, Transport Control, and Motor/Drive Signals.

- Power/Status Signals:**
  - EJECT:** Active low signal, transitions from high to low when the cassette is inserted.
  - ST-S "OFF":** Active low signal, transitions from high to low when the cassette is inserted.
  - CASS.LOAD:** Active low signal, transitions from high to low when the cassette is loaded.
  - LD-FWD:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - LD-REV:** Active low signal, transitions from high to low when the tape is fast-reversed.
  - STOP(B):** Active low signal, transitions from high to low when the tape is stopped.
  - LD-FWD:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - FB:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - SF:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - SM:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - SF:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - SM:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - AU:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - AU:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - SM:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - AU:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - AL:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - SS:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - RS:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - SS:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - AU:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - AL:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - FS1(FS2):** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - STILL:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - NOISE CANCEL:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - STILL:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - NOISE CANCEL:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - STILL:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - PLAY:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - LD-REV:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - STOP(A):** Active low signal, transitions from high to low when the tape is fast-forwarded.
- Transport Control Signals:**
  - LD-CONT:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - C-DRIVE:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - C-F/R:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - DRUM:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - ROTATION:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - P-ON:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - A-MUTE-H:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - D-PB-H:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - D-REC-H:** Active low signal, transitions from high to low when the tape is fast-forwarded.
- Motor/Drive Signals:**
  - LD-CONT:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - C-DRIVE:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - C-F/R:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - DRUM:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - ROTATION:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - P-ON:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - A-MUTE-H:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - D-PB-H:** Active low signal, transitions from high to low when the tape is fast-forwarded.
  - D-REC-H:** Active low signal, transitions from high to low when the tape is fast-forwarded.

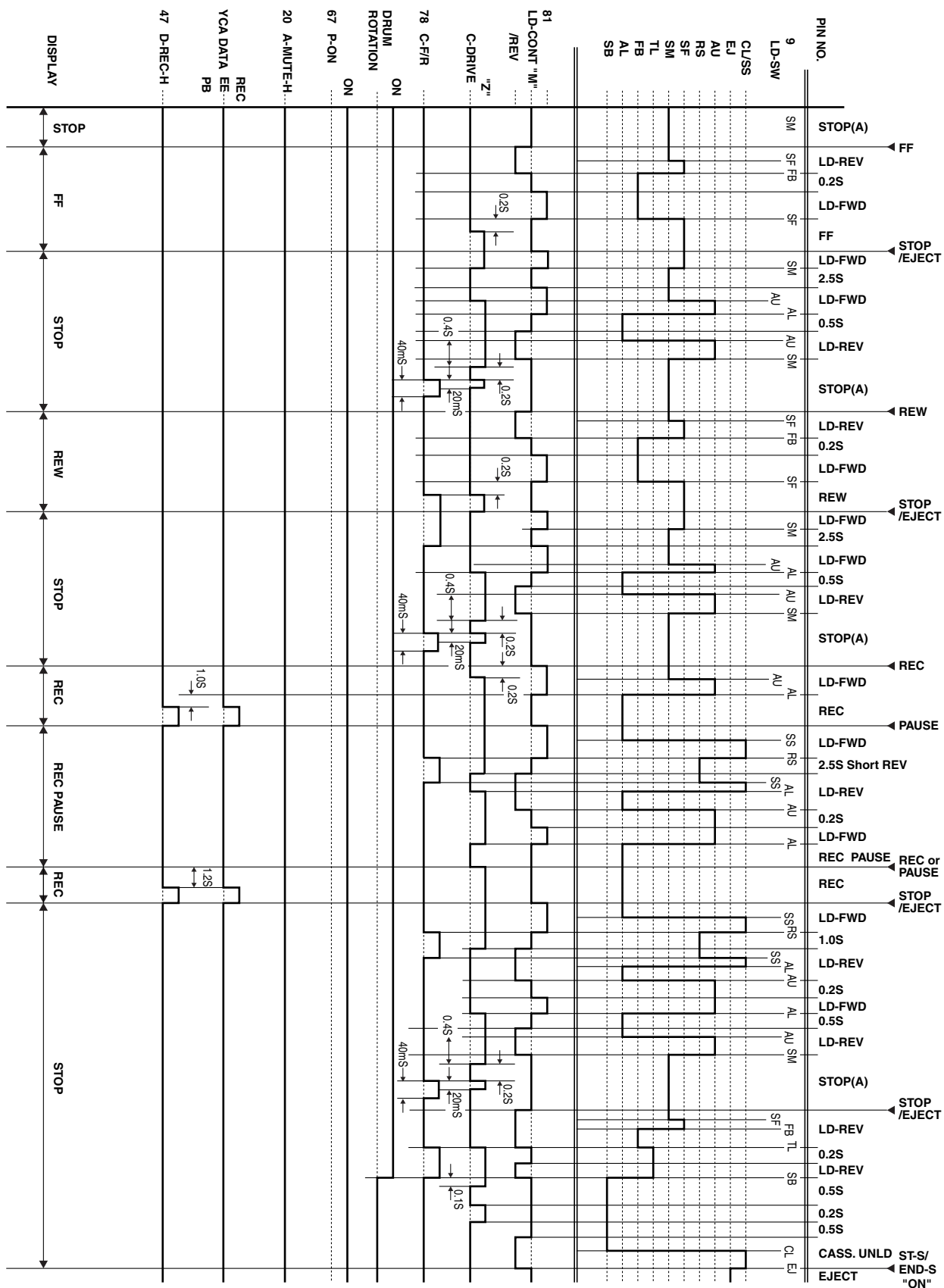
The diagram includes various time intervals and signal transitions, such as 0.25s, 0.4s, 0.5s, 0.6s, 0.8s, 1.0s, 1.2s, 1.5s, 2.0s, 2.5s, 3.0s, 3.5s, 4.0s, 4.5s, 5.0s, 5.5s, 6.0s, 6.5s, 7.0s, 7.5s, 8.0s, 8.5s, 9.0s, 9.5s, 10.0s, 10.5s, 11.0s, 11.5s, 12.0s, 12.5s, 13.0s, 13.5s, 14.0s, 14.5s, 15.0s, 15.5s, 16.0s, 16.5s, 17.0s, 17.5s, 18.0s, 18.5s, 19.0s, 19.5s, 20.0s, 20.5s, 21.0s, 21.5s, 22.0s, 22.5s, 23.0s, 23.5s, 24.0s, 24.5s, 25.0s, 25.5s, 26.0s, 26.5s, 27.0s, 27.5s, 28.0s, 28.5s, 29.0s, 29.5s, 30.0s, 30.5s, 31.0s, 31.5s, 32.0s, 32.5s, 33.0s, 33.5s, 34.0s, 34.5s, 35.0s, 35.5s, 36.0s, 36.5s, 37.0s, 37.5s, 38.0s, 38.5s, 39.0s, 39.5s, 40.0s, 40.5s, 41.0s, 41.5s, 42.0s, 42.5s, 43.0s, 43.5s, 44.0s, 44.5s, 45.0s, 45.5s, 46.0s, 46.5s, 47.0s, 47.5s, 48.0s, 48.5s, 49.0s, 49.5s, 50.0s, 50.5s, 51.0s, 51.5s, 52.0s, 52.5s, 53.0s, 53.5s, 54.0s, 54.5s, 55.0s, 55.5s, 56.0s, 56.5s, 57.0s, 57.5s, 58.0s, 58.5s, 59.0s, 59.5s, 60.0s, 60.5s, 61.0s, 61.5s, 62.0s, 62.5s, 63.0s, 63.5s, 64.0s, 64.5s, 65.0s, 65.5s, 66.0s, 66.5s, 67.0s, 67.5s, 68.0s, 68.5s, 69.0s, 69.5s, 70.0s, 70.5s, 71.0s, 71.5s, 72.0s, 72.5s, 73.0s, 73.5s, 74.0s, 74.5s, 75.0s, 75.5s, 76.0s, 76.5s, 77.0s, 77.5s, 78.0s, 78.5s, 79.0s, 79.5s, 80.0s, 80.5s, 81.0s, 81.5s, 82.0s, 82.5s, 83.0s, 83.5s, 84.0s, 84.5s, 85.0s, 85.5s, 86.0s, 86.5s, 87.0s, 87.5s, 88.0s, 88.5s, 89.0s, 89.5s, 90.0s, 90.5s, 91.0s, 91.5s, 92.0s, 92.5s, 93.0s, 93.5s, 94.0s, 94.5s, 95.0s, 95.5s, 96.0s, 96.5s, 97.0s, 97.5s, 98.0s, 98.5s, 99.0s, 99.5s, 100.0s, 100.5s, 101.0s, 101.5s, 102.0s, 102.5s, 103.0s, 103.5s, 104.0s, 104.5s, 105.0s, 105.5s, 106.0s, 106.5s, 107.0s, 107.5s, 108.0s, 108.5s, 109.0s, 109.5s, 110.0s, 110.5s, 111.0s, 111.5s, 112.0s, 112.5s, 113.0s, 113.5s, 114.0s, 114.5s, 115.0s, 115.5s, 116.0s, 116.5s, 117.0s, 117.5s, 118.0s, 118.5s, 119.0s, 119.5s, 120.0s, 120.5s, 121.0s, 121.5s, 122.0s, 122.5s, 123.0s, 123.5s, 124.0s, 124.5s, 125.0s, 125.5s, 126.0s, 126.5s, 127.0s, 127.5s, 128.0s, 128.5s, 129.0s, 129.5s, 130.0s, 130.5s, 131.0s, 131.5s, 132.0s, 132.5s, 133.0s, 133.5s, 134.0s, 134.5s, 135.0s, 135.5s, 136.0s, 136.5s, 137.0s, 137.5s, 138.0s, 138.5s, 139.0s, 139.5s, 140.0s, 140.5s, 141.0s, 141.5s, 142.0s, 142.5s, 143.0s, 143.5s, 144.0s, 144.5s, 145.0s, 145.5s, 146.0s, 146.5s, 147.0s, 147.5s, 148.0s, 148.5s, 149.0s, 149.5s, 150.0s, 150.5s, 151.0s, 151.5s, 152.0s, 152.5s, 153.0s, 153.5s, 154.0s, 154.5s, 155.0s, 155.5s, 156.0s, 156.5s, 157.0s

[illegible]

### Chart 1



### Chart 2



2. STOP(A) -> FF -> STOP(A) -> REW -> STOP(A) -> REC -> PAUSE -> PAUSE or REC -> STOP(A) -> EJECT

# IC PIN FUNCTION DESCRIPTIONS

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58), 14PV385/ (01, 07, 39) ]

Comparison Chart of Models and Marks

Model	Mark
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M

## IC 201 (TV/VCR Micro Controller)

“H” ≥ 4.5V, “L” ≤ 1.0V

Pin No.	Mark	IN/ OUT	Signal Name	Function
1	E,F,H ,I,K,L	-	NU	Not Used
	G,J, M	IN	AFC2	AFC 2 of Tuner 2
2		IN	P-SAFETY 2	Power Supply Failure Detection 2
3		IN	P-SAFETY 1	Power Supply Failure Detection 1
4		IN	END-SENS	End-Sensor
5		IN	AFC	Automatic Frequency Control Signal
6		IN	V-ENV	Video Envelope Input
7		IN	KEY-1	Key 1 Input
8		IN	KEY-2	Key 2 Input
9		IN	LD-SW	Loading Switch Input
10		IN	ST-SENS	Start-Sensor
11		-	NU	Not Used
12		-	NU	Not Used
13		IN/ OUT	DV SYNC	Artificial V-Sync Output
14		IN	REMOTE	Remote Signal Input
15		OUT	C-ROTA	Color Phase Rotary Changeover Signal
16		OUT	H-A-SW	Video Head Amp Switching Pulse
17		-	NU	Not Used
18		OUT	RF-SW	Video Head Switching Pulse

Pin No.	Mark	IN/ OUT	Signal Name	Function
19		-	NU	Not Used
20		OUT	A-MUTE-H	Audio Mute Control Signal (Mute = “H”)
21		-	NU	Not Used
22	E,F,H ,I,K,L	-	NU	Not Used
	G,J, M	OUT	1ST-SND-H	Tuner 1 and Tuner 2 Switching Signal
23		OUT	REC-LED	Recording LED Control Signal
24		OUT	REC-LED	Recording LED Control Signal
25		-	NU	Not Used
26		-	NU	Not Used
27		-	NU	Not Used
28		-	NU	Not Used
29		OUT	SCART-MUTE	RAPID-Switch Input Signal from Scart Jack
30		-	NU	Not Used
31		IN	REC-SAFETY	Record Protection Tab Detection
32	E,F,G ,H,I,J ,K,L	-	NU	Not Used
	M	IN	SECAM-H	SECAM Mode at High
33	E,F,G ,H,I,J ,K,L	-	NU	Not Used
	M	IN/ OUT	TRICK-H	Special Playback = “H” in SECAM Mode
34		IN	RESET	System Reset Signal (Reset=“L”)
35		IN	XCIN	Sub Clock 32 kHz
36		OUT	XCOUT	Sub Clock 32 kHz
37		-	TIMER+5V	Vcc
38		IN	XIN	Main Clock Input
39		OUT	XOUT	Main Clock Output
40		-	GND	GND
41		OUT	SPOT-KILL	Counter-measure for Spot
42		OUT	EXT-L	External Input or Playback = Output
43		IN	CLKSEL	Clock Select (GND)

Pin No.	Mark	IN/ OUT	Signal Name	Function
44		OUT	SP-MUTE	Speaker Mute Signal
45		IN/ OUT	I2C-OPEN	White Balance Adjust Mode Judgment
46		-	GND	GND
47		OUT	D-REC-H	Delayed Record Signal
48		OUT	SCART-H	Switching Signal of Scart Jack and RCA Jack
49		-	OSD-GND	OSD GND
50		-	NU	Not Used
51		-	NU	Not Used
52		-	NU	Not Used
53		-	OSDVcc	OSDVcc
54		-	HLF	HLF
55	E,H,K	-	NU	Not Used
	F,G,I,J,L,M	OUT	TEXT-RESET	Tele Text Reset
56		IN	CV-IN	Video Signal Input
57		-	GND	GND
58		IN	H-SYNC	H-SYNC Input
59		IN	V-SYNC	V-SYNC Input
60		OUT	OSD-BLK	Output for Picture Cut off
61		OUT	RGB-CONT	RGB Control Signal
62		OUT	OSD-B	Blue Output
63		OUT	OSD-G	Green Output
64		OUT	OSD-R	Red Output
65		IN	RAPIT-SW-IN	RAPID-Switch Input Signal
66	E,F,H,I,K,L	-	NU	Not Used
	G,J,M	OUT	C-POWER-SW	Capstan Power Switching Signal
67		OUT	P-ON-H	Power On Signal at High
68		IN	SLOW-SW-IN	Slow Switch Input Signal
69		-	NU	Not Used
70		OUT	TEXT-IN-H	Tele Text Input Signal at High
71		OUT	SCL	E2PROM/ CHROMA IC Tuner Communication Clock

Pin No.	Mark	IN/ OUT	Signal Name	Function
72		IN/ OUT	SDA	E2PROM/ CHROMA IC Tuner Communication Data
73		-	NU	Not Used
74		IN	C-SYNC	C-Sync Input
75		-	NU	Not Used
76		OUT	C-CONT	Capstan Motor Control Signal
77		OUT	D-CONT	Drum Motor Control Signal
78		OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L"/ REV="H")
79	E,F,H,I,K,L	-	NU	Not Used
	G,J,M	IN	S-REEL	Supply Reel Rotation Signal
80		IN	T-REEL	Take Up Reel Rotation Signal
81		IN/ OUT	LD-CONT	Loading Motor Control Signal
82		OUT	TEXT-L	Teletext Control Signal
83	E,F,H,I,K,L,M	-	NU	Not Used
	G,J	IN	DAV-L	VPS/PDC Data Receive = "L"
84		-	NU	Not Used
85		IN	P-DOWN-L	Power Voltage Down Detector Signal at Low
86		-	NU	Not Used
87		IN	C-FG	Capstan Motor Rotation Detection Pulse
88		-	AMPVss	AMPVss (GND)
89		-	NU	Not Used
90		IN	D-PFG	Drum Motor Phase/ Frequency Generator
91		OUT	AMP VREF-OUT	Standard Voltage Output
92		IN	AMP VREF-IN	Standard Voltage Input
93		-	C	C Terminal
94		IN/ OUT	CTL (-)	CTL (-)
95		IN/ OUT	CTL (+)	CTL (+)

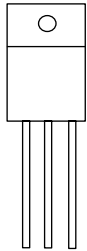
Pin No.	Mark	IN/ OUT	Signal Name	Function
96		-	AMPC	AMPC
97		OUT	CTL AMP-OUT	Control Amp Output
98		-	AMPVcc	AMPVcc
99		-	AVcc	A/D Converter Power Input/ Standard Voltage Input
100		IN	AGC	Tuner IF Output Signal



# LEAD IDENTIFICATIONS

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58), 14PV385/ (01, 07, 39) ]

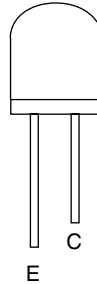
2SK2647



S: Souce  
D: Drain  
G: Gate

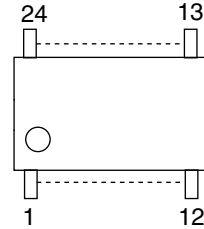
S D G

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PT204-6B-12

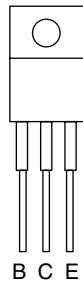


E

LC74793JM-TRM



1 12 13 24



2SC5884000RF  
2SD1913(R)  
KTC2026Y  
TT2084LS-YB11  
TT2138LS-YB11

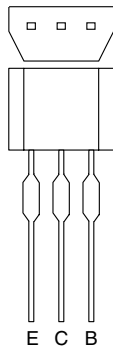
E: Emitter  
C: Collector  
B: Base

B C E

LA78040A

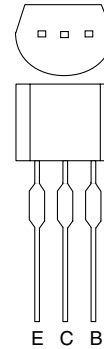


IN G OUT



2SA1346  
KRA103M  
KTA1266(GR)  
2SA1175(F)  
2SC1627Y-TPE2  
2SC2785(F,H,J)  
BN1F4M-T  
KTA1267(GR)  
KTC3199(GR)  
KRC103M  
BA1F4M-T  
2SC3400

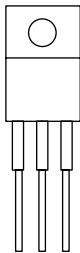
E C B



2SC1815-GR(TPE2)  
2SC2120-O(TPE2)  
2SC2120-Y(TPE2)  
2SC3331(T,U)  
KTC3203(Y)  
KTC3207  
2SA1015-GR(TPE2)  
2SA950(Y,O)  
2SD2627LS-FEC-YB11  
KTA1271(Y)  
KTC3198(GR)  
2SC2482TPE6  
2SC3468(E)-AE  
2SB892(S)

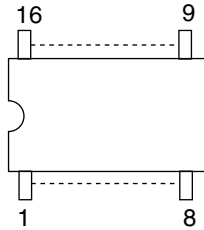
E C B

KA7805A  
KIA7805API



IN G OUT

CD4053BCSJX  
CD4053BNSR  
TC4053BF(N)



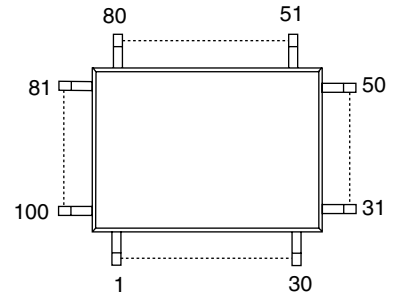
1 8 9 16

PS2561L1-1-VL  
PS2561L1-1-VW



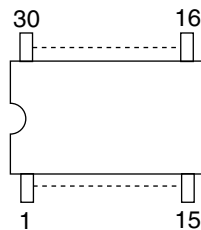
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LA71750EM-MPB-E  
M3776AMCA-BA3GP  
M3776AMFA-BA4GP



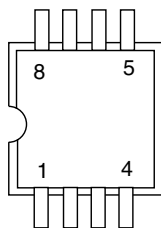
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LA70100M-MPB



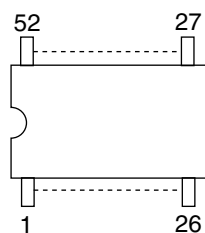
1 15 16 30

AT24C04N-10SC  
BR24C04F  
BR24C04F-W  
BR24L04F-WE2  
CAT24WC04JI  
M24C04-MN6  
M24C04-WMN6



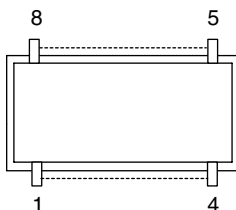
1 4 5 8

SAA5265



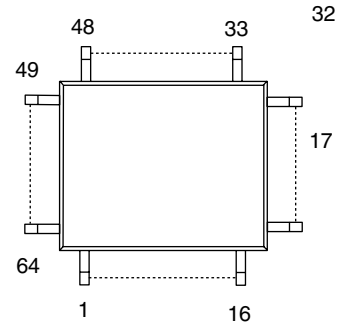
1 26 27 52

LA4224



1 4 5 8

M61209BFP



1 16 17 32 33 48 49 64

**PRODUCT SAFETY NOTE:** Products marked with a ▲

have special characteristics important to safety.  
 Before replacing any of these components, read carefully  
 the product safety notice in this service manual.  
 Don't degrade the safety of the product through improper servicing.

**NOTES:**

C.....±0.25%    D.....±0.5%    F.....±1%  
 G.....±2%        J.....±5%        K.....±10%  
 M.....±20%      N.....±30%      Z.....+80/-20%

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲	12 NC	Description								
			MMA CBA	1	1	1	1	1	1	1	1
			Consists of the following								
			MAIN CBA	1	1	1	1	1	1	1	1
			JUNCTION A CBA	1	1	1	1	1	1	1	1
			JUNCTION B CBA	1	1	1	1	1	1	1	1
			JUNCTION C CBA	1	1	1	1	1	1	1	1
			SENSOR CBA	1	1	1	1	1	1	1	1
			POWER CBA	1	1	1	1	1	1	1	1
			CRT CBA	1	1	1	1	1	1	1	1
			MAIN CBA								
			CAPACITORS								
C001			CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1
C002			ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1
C005			CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V						1	1	1
C006			ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1
C008			ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1
C009			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
C014			PCB JUMPER D0.6-P5.0						1	1	1
C101			FILM CAP.(P) 0.056UF/50V J						1	1	
C102			ELECTROLYTIC CAP. 4.7UF/50V M H7						1	1	
C103			CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V						1	1	
C104			ELECTROLYTIC CAP. 47UF/6.3V M H7						1	1	
C105			ELECTROLYTIC CAP. 1UF/50V M H7						1	1	
C106			ELECTROLYTIC CAP. 1UF/50V M H7						1	1	
C151			ELECTROLYTIC CAP. 330UF/16V M	1	1	1	1	1	1	1	1
C152			CERAMIC CAP.(AX) X M 2200PF/16V	1	1	1	1	1	1	1	1
C154			ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1	1	1
C155			ELECTROLYTIC CAP. 0.22UF/50V M H7	1	1	1	1	1	1	1	1
C156			CHIP CERAMIC CAP.(1608) B K 4700PF/50V	1	1	1	1	1	1	1	1
C157			ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1
C160			CHIP CERAMIC CAP.(1608) CH J 270PF/50V	1	1	1	1	1	1	1	1
C203			CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1
C205			CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1
C207			ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1
C208			CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1
C209			CHIP CERAMIC CAP.(1608) CH J 22PF/50V	1	1	1	1	1	1	1	1
C210			CHIP CERAMIC CAP.(1608) CH J 22PF/50V	1	1	1	1	1	1	1	1
C211			ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1
C212			CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1
C213			ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1
C214			ELECTROLYTIC CAP. 330UF/6.3V M	1	1	1	1	1	1	1	1
C217			CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
C218		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1	1
C221		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C222		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1
C223		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1
C224		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C225		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1	1	1	1
C226		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C227		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1	1
C228		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1	1
C229		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1
C230		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C231		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1
C233	▲ 9965 000 09764	CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1
C234		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C235		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C236		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C237		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C238		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C239		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1	1	1	1
C240		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1
C241		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1	1	1	1
C242		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1
C243		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C244		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1
C245		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C248		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C253		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C254		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1	1	1	1
C255		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1	1	1	1
C256		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1
C301		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1
C302		ELECTROLYTIC CAP. 470UF/6.3V M	1	1	1	1	1	1	1	1	1
C303		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C304		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C305		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C307		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C308		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C309		FILM CAP.(P) 0.1UF/50V J	1	1	1	1	1	1	1	1	1
C310		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C311		ELECTROLYTIC CAP. 470UF/6.3V M	1	1	1	1	1	1	1	1	1
C312		CHIP CERAMIC CAP.(MELF) B K 180PF/50V	1	1	1	1	1	1	1	1	1
C313		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C314		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C315		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C316		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C317		CHIP CERAMIC CAP. CH J 150PF/50V	1	1	1	1	1	1	1	1	1
C318		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C319		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C320		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C321		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C322		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1	1	1
C323		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1
C324		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1
C325		MYLAR CAP. 0.22UF/50V J	1	1	1	1	1	1	1	1	1
C326		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C327		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C328		MYLAR CAP. 0.22UF/50V J	1	1	1	1	1	1	1	1	1
C330		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
C331		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1	1	1	1
C332		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C333		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C334		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C336		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1	1	1	1
C338		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1
C340		CHIP CERAMIC CAP.(MELF) B K 180PF/50V	1	1	1	1	1	1	1	1	1
C341		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1
C344		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1
C350		ELECTROLYTIC CAP. 220UF/10V M	1	1	1	1	1	1	1	1	1
C401		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C402		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C403		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C404		ELECTROLYTIC CAP. 100UF/6.3V H7	1	1	1	1	1	1	1	1	1
C405		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C406		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C407		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C408		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C409		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C410		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C411		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C412		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C413		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C414		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C415		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C416		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C417		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C418		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C419		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C420		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C421		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1
C422		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V							1	1	1
C424		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C425		CHIP CERAMIC CAP. CH J 68PF/50V	1	1	1	1	1	1	1	1	1
C426		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C427		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C430		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1
C431		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C432		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C433		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1
C434		ELECTROLYTIC CAP. 22UF/16V M H7	1	1	1	1	1	1	1	1	1
C435		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C436		CHIP CERAMIC CAP. CH J 120PF/50V	1	1	1	1	1	1	1	1	1
C438		CHIP CERAMIC CAP. CH J 220PF/50V	1	1	1	1	1	1	1	1	1
C440		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C441		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C442		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C443		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C444		CHIP CERAMIC CAP. B K 2200PF/50V	1	1	1	1	1	1	1	1	1
C445		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1
C452		CHIP CERAMIC CAP. CH J 68PF/50V	1	1	1	1	1	1	1	1	1
C471		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V									1
C472		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V									1
C473		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V									1
C474		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V									1
C475		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V									1
C476		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V									1
C478		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V									1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
C479		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V									1
C480		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V									1
C481		ELECTROLYTIC CAP. 0.47UF/50V M H7									1
C483		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V									1
C484		CHIP CERAMIC CAP. CH J 820PF/50V									1
C485		CHIP CERAMIC CAP. CH J 820PF/50V									1
C486		ELECTROLYTIC CAP. 2.2UF/50V M H7									1
C681		ELECTROLYTIC CAP. 220UF/16V M	1	1	1	1	1	1			
C682		ELECTROLYTIC CAP. 220UF/16V M	1	1	1	1	1	1	1	1	1
C683		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1	1	1
C684	▲ 9965 000 24177	CHIP CERAMIC CAP.(MELF) B K 180PF/50V	1	1	1	1	1	1	1	1	1
C687		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1
C688		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1
C691		ELECTROLYTIC CAP. 2.2UF/50V M	1	1	1	1	1	1	1	1	1
C694		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1	1	1
C703		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1	1	1
C707		ELECTROLYTIC CAP. 0.22UF/50V M	1	1	1	1	1	1	1	1	1
C708		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1	1	1
C709		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1	1	1
C710		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1	1	1
C711		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1	1	1
C713		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
C715		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1	1	1
C716		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C719		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C723		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1
C724		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1	1	1	1
C851		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C855		ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1	1	1	1	1	1	1	1
C856		CERAMIC CAP. B K 470PF/100V	1	1	1	1	1	1	1	1	1
C857		FILM CAP.(P) 0.018UF/100V J	1	1	1	1	1	1	1	1	1
C858		CHIP CERAMIC CAP. B K 1500PF/50V	1	1	1	1	1	1	1	1	1
C859		CHIP CERAMIC CAP.(MELF) SL J 33PF/50V	1	1	1	1	1	1	1	1	1
C860		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1			
C860		ELECTROLYTIC CAP. 22UF/50V M							1	1	1
C861		CERAMIC CAP.(AX) X M 1800PF/16V	1	1	1	1	1	1	1	1	1
C862		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1
C863		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C864		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C865		CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	1	1	1	1	1	1	1	1
C866		ELECTROLYTIC CAP. 33UF/10V H7	1	1	1	1	1	1	1	1	1
C867		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1	1	1	1
C869		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C870		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V							1	1	1
C871		CHIP CERAMIC CAP.(MELF) B K 180PF/50V	1	1	1	1	1	1	1	1	1
C872		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
C873		CHIP CERAMIC CAP.(MELF) B K 150PF/50V							1	1	1
C874		CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1
C875		CHIP CERAMIC CAP. CH J 220PF/50V	1	1	1	1	1	1	1	1	1
C876		CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C877		ELECTROLYTIC CAP. 100UF/6.3V H7	1	1	1	1	1	1	1	1	1
CF101	9965 000 13835	CERAMIC RESONATOR 4.433MHZ							1	1	
CONNECTORS											
CL301A	9965 000 13836	LEAD WIRE 4P/300	1	1	1	1	1	1	1	1	1
CL302A	9965 000 24178	LEAD WIRE 7P/190	1	1	1	1	1	1	1	1	1
CL603A	9965 000 24179	LEAD WIRE 12P/190	1	1	1	1	1	1	1	1	1
CL604	9965 000 18088	WIRE ASSEMBLY 1P/45	1	1	1	1	1	1	1	1	1
CN201	9965 000 13840	FFC/FPC CONNECTOR, 12P 04 6232 112 103 800	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲	12 NC	Description								
CN303		9965 000 13841	CONNECTOR BASE, 5P TUC-P05P-B1	1	1	1	1	1	1	1	1
CN751		9965 000 13842	CONNECTOR BASE, 8P TUC-P08P-B1	1	1	1	1	1	1	1	1
CN752		9965 000 13843	CONNECTOR BASE, 6P TUC-P06P-B1	1	1	1	1	1	1	1	1
CN804		9965 000 13844	STRAIGHT CONNECTOR BASE 00 8283 0212 00 000	1	1	1	1	1	1	1	1
DIODES											
D151	▲	9965 000 13848	ZENER DIODE MTZJT-777.5B	1	1	1	1	1	1	1	1
D152	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D201		9965 000 05250	LED SIR-563ST3F P	1	1	1	1	1	1	1	1
D202		9965 000 13846	LED(RED) L-1513EC	1	1	1	1	1	1	1	1
D204		9965 000 13846	LED(RED) L-1513EC	1	1	1	1	1	1	1	1
D205		4822 130 33948	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1	1
D206			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
D210		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D211		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D212		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D213		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D214		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D302		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D303		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D304		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D305		9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1	1	1
D306		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D401	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D402		9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1
D471			PCB JUMPER D0.6-P5.0								1
D681			PCB JUMPER D0.6-P10.0						1	1	1
D682	▲		PCB JUMPER D0.6-P10.0	1	1	1	1	1			
D682	▲	9965 000 13847	DIODE 1N5397-B						1	1	1
D686		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D687		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D688	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D691	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D694		9965 000 18091	ZENER DIODE MTZJT-7715B	1	1	1	1	1	1	1	1
D695		9965 000 23556	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1	1
D696		9965 000 13882	ZENER DIODE MTZJT-7718B	1	1	1	1	1	1	1	1
D697		9965 000 24180	ZENER DIODE MTZJT-779.1B	1	1	1	1	1	1	1	1
D705		9965 000 23556	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1	1
D706		9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1	1	1
D707		9965 000 23556	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1	1
D709		9965 000 23556	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1	1
D711		4822 130 33948	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1	1
D712		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D713		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D715		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D716		9965 000 18091	ZENER DIODE MTZJT-7715B	1	1	1	1	1	1	1	1
IC's											
IC101	▲	9965 000 12198	IC:VPS/PDC SLICER LC74793JM-TRM						1	1	
IC151	▲	9965 000 13853	AUDIO AMP LA4224	1	1	1	1	1	1	1	1
IC201	▲	9965 000 24181	MICRO COMPUTER M3776AMCA-BA3GP	1	1	1	1	1			
IC201	▲	9965 000 24201	MICRO COMPUTER M3776AMFA-BA4GP						1	1	1
IC202	▲	9965 000 13030	IC:MEMORY BR24C04F-W	1	1	1	1	1	1	1	1
IC301	▲	9965 000 18093	IC:CHROMA/IF 1 CHIP M61209BFP	1	1	1	1	1	1	1	1
IC401	▲	9965 000 12180	IC:Y/C/A LA71750EM-MPB-E	1	1	1	1	1	1	1	1
IC471	▲	9965 000 12255	IC:SECAM LA70100M-MPB								1
IC681	▲	9965 000 13851	VOLTAGE REGULATOR KIA7805API	1	1	1	1	1	1	1	1
IC701	▲	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1	1	1
IC702	▲	9965 000 13852	IC:SWITCH TC4053BF(N)						1	1	1
IC703	▲	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
<b>COILS</b>											
L001		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
L151	9965 000 18094	INDUCTOR 1.8UH-J-26T	1	1	1	1	1	1	1	1	1
L152	9965 000 13856	INDUCTOR 1.0UH-J-26T	1	1	1	1	1	1	1	1	1
L201	9965 000 13857	INDUCTOR 0.10UH-K-26T	1	1	1	1	1	1	1	1	1
L302	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1	1	1	1
L303		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1
L304		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1
L305		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
L401		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
L402	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1	1	1	1
L403	4822 157 10649	INDUCTOR 100UH-J-26T	1	1	1	1	1	1	1	1	1
L681		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1
L682		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1
L701	9965 000 13860	INDUCTOR 12UH-J-26T	1	1	1	1	1	1	1	1	1
L702		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
L852	9965 000 05705	INDUCTOR 47UH-K-5FT	1	1	1	1	1	1	1	1	1
L854	9965 000 18095	INDUCTOR 0.22UH-K-26T	1	1	1	1	1	1	1	1	1
<b>TRANSISTORS</b>											
Q204	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q205	9965 000 20922	PHOTO TRANSISTOR MID-32A22F	1	1	1	1	1	1			
Q205	9965 000 20922	PHOTO TRANSISTOR MID-32A22F							1	1	1
Q206	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1	1	1
Q401	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1
Q681	▲ 9965 000 13862	TRANSISTOR 2SB892(S)							1	1	1
Q682	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q683	9965 000 23377	RES. BUILT-IN TRANSISTOR KRC103M							1	1	1
Q684	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1	1
Q685	▲ 9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q686	▲ 9965 000 13863	TRANSISTOR 2SD1913(R)	1	1	1	1	1	1	1	1	1
Q701	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q702	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q703	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1
Q704	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1	1	1
Q705		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
Q706	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q707	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q708	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q709	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q710	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
Q711	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1
Q851	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1	1	1
Q852	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1	1	1	1
Q853	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1	1	1	1
Q854	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1
Q855	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1	1
Q856	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1
<b>RESISTORS</b>											
R003		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R004		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R101		CHIP RES.(1608) 1/10W J 10K OHM							1	1	
R102		CHIP RES.(1608) 1/10W J 2.7K OHM							1	1	
R103		CHIP RES.(1608) 1/10W J 5.6K OHM							1	1	
R104		CHIP RES.(1608) 1/10W J 10K OHM							1	1	
R106		CHIP RES.(1608) 1/10W J 10K OHM							1	1	
R107		CHIP RES.(1608) 1/10W J 100 OHM							1	1	
R108		CHIP RES.(1608) 1/10W J 100 OHM							1	1	
R151	▲ 9965 000 24182	METAL OXIDE FILM RES. 1W J 12 OHM	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲	12 NC	Description								
R152	▲	9965 000 09940	CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1
R153			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1
R154			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1
R155			CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1	1
R156			CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1	1
R157			CARBON RES. 1/4W J 10 OHM	1	1	1	1	1	1	1	1
R201			CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1
R202			CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1
R203			CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1
R204			CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1
R205			CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1
R206			CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1	1	1
R207			CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1
R208			CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1
R209			CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1
R210			CARBON RES. 1/4W G 4.7K OHM	1	1	1	1	1	1	1	1
R211			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1
R212			CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1	1	1
R213			CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1
R214			CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1
R215			CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1
R216			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1
R217			CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1	1	1
R218			CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1
R219			CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1
R220			CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1	1	1
R221			CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1	1	1
R222			CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1
R223			CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1
R224			CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1
R226			CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	
R227			CHIP RES.(1608) 1/10W J 47 OHM	1	1	1	1	1	1	1	1
R228			CHIP RES.(1608) 1/10W J 100K OHM	1	1	1	1	1	1	1	1
R229			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1
R230			CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1
R231			CHIP RES.(1608) 1/10W J 330K OHM	1	1	1	1	1	1	1	1
R232			CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1
R233			CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1
R234			CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1
R235			CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1
R236			CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1	1	1
R237			CHIP RES.(1608) 1/10W J 1M OHM	1	1	1	1	1	1	1	1
R238			CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1
R239			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
R240			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
R241			CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1
R242			CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1
R243			CHIP RES.(1608) 1/10W J 39K OHM	1	1	1	1	1	1	1	1
R244			CHIP RES.(1608) 1/10W J 220K OHM	1	1	1	1	1	1	1	1
R248			CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1
R249			CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1
R250			CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1
R251			CHIP RES.(1608) 1/10W J 33K OHM						1	1	1
R252			CARBON RES. 1/4W J 180 OHM						1	1	1
R254			CHIP RES.(1608) 1/10W J 100K OHM	1	1	1	1	1	1	1	1
R255			CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1
R256			CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1
R257			CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1	1



ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
R258		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1	1	1
R259		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R260		CARBON RES. 1/4W G 1.5K OHM	1	1	1	1	1	1	1	1	1
R261		CARBON RES. 1/4W G 22K OHM	1	1	1	1	1	1	1	1	1
R262		CARBON RES. 1/4W G 470 OHM	1	1	1	1	1	1	1	1	1
R263		CARBON RES. 1/4W G 10K OHM	1	1	1	1	1	1	1	1	1
R264		CARBON RES. 1/4W G 3.6K OHM	1	1	1	1	1	1	1	1	1
R265		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R266		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R267		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R268		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1
R269		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1
R270		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R271		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R272		CHIP RES.(1608) 1/10W J 18K OHM	1	1	1	1	1	1	1	1	1
R273		CHIP RES.(1608) 1/10W J 18K OHM	1	1	1	1	1	1	1	1	1
R274		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R275		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1
R276		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R277		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1
R278		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R279		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1
R280		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R281		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1
R282		CARBON RES. 1/4W J 330 OHM	1	1	1	1	1	1	1	1	1
R288		CHIP RES.(1608) 1/10W J 10 OHM	1	1	1	1	1	1	1	1	1
R289		CHIP RES.(1608) 1/10W J 10 OHM	1	1	1	1	1	1	1	1	1
R301		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R302		CHIP RES.(1608) 1/10W J 8.2K OHM	1	1	1	1	1	1	1	1	1
R303		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R304		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1
R305		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R306		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R307		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R308		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R309		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R310		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1
R311		CARBON RES. 1/4W J 12 OHM	1	1	1	1	1	1	1	1	1
R312		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R313		CHIP RES.(1608) 1/10W J 220K OHM	1	1	1	1	1	1	1	1	1
R314		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R315		CHIP RES.(1608) 1/10W J 150K OHM	1	1	1	1	1	1	1	1	1
R316		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1	1	1
R317		CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1	1	1	1
R318		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1	1	1	1
R320		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R321		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1	1
R322		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1
R323		CHIP RES.(1608) 1/10W J 15K OHM	1	1	1	1	1	1	1	1	1
R324		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R325		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R326		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1	1	1	1
R327		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R332		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R333		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R334		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R335		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1	1
R336		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
R339		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1
R340		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1
R401		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R402		CHIP RES.(1608) 1/10W J 8.2K OHM	1	1	1	1	1	1	1	1	1
R405		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R406		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R407		CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1	1	1	1
R408		CHIP RES.(1608) 1/10W J 330 OHM	1	1	1	1	1	1	1	1	1
R409		CHIP RES.(1608) 1/10W J 330 OHM	1	1	1	1	1	1	1	1	1
R410		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1	1
R411		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R412		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R413		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1
R414		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1	1	1	1
R415		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R416		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R418		CHIP RES.(1608) 1/10W J 56K OHM	1	1	1	1	1	1	1	1	1
R420		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R422		CHIP RES.(1608) 1/10W J 120 OHM	1	1	1	1	1	1	1	1	1
R423		CHIP RES.(1608) 1/10W J 47 OHM	1	1	1	1	1	1	1	1	1
R424		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1
R425		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1
R426		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1
R471		CHIP RES.(1608) 1/10W J 2.2K OHM									1
R681		CARBON RES. 1/4W J 47K OHM							1	1	1
R682		CARBON RES. 1/4W J 680 OHM							1	1	1
R683		METAL OXIDE FILM RES. 1W J 2.2 OHM	1	1	1	1	1	1	1	1	1
R684		CHIP RES.(1608) 1/10W J 10 OHM	1	1	1	1	1	1	1	1	1
R685		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1	1	1
R686		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R687		CARBON RES. 1/4W J 680 OHM							1	1	1
R689	▲ 9965 000 20938	CARBON RES. 1/4W J 82 OHM	1	1	1	1	1	1	1	1	1
R690	▲ 9965 000 20938	CARBON RES. 1/4W J 82 OHM	1	1	1	1	1	1	1	1	1
R691	▲ 9965 000 24183	CARBON RES. 1/4W J 2.7 OHM	1	1	1	1	1	1	1	1	1
R692		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R693	▲ 9965 000 23544	CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1
R694		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R695	▲ 9965 000 24183	CARBON RES. 1/4W J 2.7 OHM	1	1	1	1	1	1	1	1	1
R696		METAL OXIDE FILM RES. 1W J 2.2 OHM	1	1	1	1	1	1	1	1	1
R697		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R698		CHIP RES.(1608) 1/10W J 8.2K OHM	1	1	1	1	1	1	1	1	1
R701		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1
R702		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1
R703		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1
R704		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1	1	1	1
R707		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1
R709		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1
R710		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1	1
R711		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1
R712		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R714		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1
R723		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1
R724		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1	1
R725		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1	1	1
R726		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1
R727		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1
R728		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1
R729		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
R730		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R731		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R732		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1	1	1
R733		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1	1	1
R737		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1
R738		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R739		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R740		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1	1
R741		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R742		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1
R743		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1	1	1	1
R744		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1
R745		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1	1	1	1
R746		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1
R747		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1	1	1	1
R748		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1	1
R749		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1
R751		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1	1
R752		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1
R753		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1	1	1
R754		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1
R755		CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1	1	1	1
R756		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1
R757		CHIP RES.(1608) 1/10W J 1M OHM	1	1	1	1	1	1	1	1	1
R851		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1	1
R852		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1
R853		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1
R854		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1
R856		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1	1	1
R857		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1	1
R858		CARBON RES. 1/4W J 820 OHM	1	1	1	1	1	1	1	1	1
R859		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1	1
R860		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1
R861		CHIP RES.(1608) 1/10W J 330K OHM	1	1	1	1	1	1	1	1	1
R862		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1	1	1	1
R863		CHIP RES.(1608) 1/10W J 120 OHM	1	1	1	1	1	1	1	1	1
R864		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1
R865		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1	1
R866		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1	1	1	1
R867		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1
R869		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1			
R869		CHIP RES.(1608) 1/10W J 3.3K OHM							1	1	1
R870		CHIP RES.(1608) 1/10W J 56K OHM	1	1	1	1	1	1	1	1	1
R871		CHIP RES.(1608) 1/10W J 1M OHM	1	1	1	1	1	1	1	1	1
R873		CHIP RES.(1608) 1/10W J 3.3K OHM							1	1	1
R874		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R875		CHIP RES.(1608) 1/10W J 56K OHM							1	1	1
R876		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1
R877		CHIP RES.(1608) 1/10W J 15K OHM	1	1	1	1	1	1	1	1	1
R878		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1	1	1	1
R879		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1	1
R884		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1
RS201	9965 000 10857	REMOTE RECEIVER PIC-37042LU	1	1	1	1	1	1	1	1	1
SWITCHES											
SW201	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW202	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW203	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW204	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
SW205	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW206	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW207	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW208	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW209	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW210	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1
SW211	9965 000 12192	LEAF SWITCH MXS00052MPP0	1	1	1	1	1	1	1	1	1
SW212	9965 000 16626	ROTARY MODE SWITCH SSS-50MD	1	1	1	1	1	1	1	1	1
MISCELLANEOUS											
JK151	9965 000 13855	HEADPHONE JACK MSJ-035-10A B	1	1	1	1	1	1	1	1	1
JK701	4822 265 11659	RCA JACK(YELLOW) MSP-281V4-B	1	1	1	1	1	1	1	1	1
JK702	4822 265 11661	RCA JACK(WHITE) MSP-281V1-B	1	1	1	1	1	1	1	1	1
JK703	9965 000 13854	SKIRT JACK 21P HRC-21V-02P	1	1	1	1	1	1	1	1	1
PI201	9965 000 12189	PHOTO INTERRUPTER RPI-302C70							1	1	1
TB3	9965 000 18113	HEAD SHIELD S T6400RA	1	1	1	1	1	1	1	1	1
TB7	9965 000 18114	LED HOLDER T6400RA	1	1	1	1	1	1	1	1	1
TB15	9965 000 12173	ROHM HOLDER H7770JD							1	1	1
TB21	9965 000 08566	BUSH, LED(F) H3700UD	1	1	1	1	1	1	1	1	1
TP001		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1
TP002		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1
TP003		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1
TP007		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1	1	1
TP008		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1
TP009		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1
TP010		PCB JUMPER D0.6-P22.5	1	1	1	1	1	1	1	1	1
X201	9965 000 09200	X'TAL 32.768KHZ(20PPM)	1	1	1	1	1	1	1	1	1
X202	9965 000 12194	X'TAL 12.000MHZ	1	1	1	1	1	1	1	1	1
X301	9965 000 13869	X'TAL 4.433619MHZ	1	1	1	1	1	1	1	1	1
X401	9965 000 05629	X'TAL 4.433619MHZ	1	1	1	1	1	1	1	1	1
1005/ TU001	3143 027 10311	TUN 04 IF V+U PLL SPLI BGDKIL									1
1005/ TU001	3143 027 10331	TUN 04 IF V+U PLL IEC BGDKI	1	1	1	1	1	1			
1005/ TU001	3143 027 10291	TUN 04 IF V+U PLL SPLIT BGDKI							1	1	
1006/ TU002	3143 027 10301	TUN 04 IF V+U PLL PHONO BGDKI							1	1	
1006/ TU002	3143 027 10321	TUN 04 IF V+U PLL PHON BGDKIL									1
5000	3143 021 00011	COI DEGAUS FUNAI	1	1	1	1	1	1	1	1	1
8000	3143 021 00031	EARTH CABLE	1	1	1	1	1	1	1	1	1
8016	2422 070 98211	MAINS CORD EUR 2A5 1M7 JH BK B	1		1	1		1	1		1
8016	2422 070 98218	MAINS CORD UK 5A 1M8 BK B		1			1			1	
8200	3143 021 00021	TUNER CABLE							1	1	1
JUNCTION A CBA											
CN603	9965 000 24184	CONNECTOR 12P TUC-P12X-B1	1	1	1	1	1	1	1	1	1
JUNCTION B CBA											
CN302	9965 000 13872	CONNECTOR, 7P TUC-P07X-B1	1	1	1	1	1	1	1	1	1
JUNCTION C CBA											
CN301	9965 000 05261	CONNECTOR 4P TUC-P04X-B1	1	1	1	1	1	1	1	1	1
SENSOR CBA											
Q201	9965 000 20922	PHOTO TRANSISTOR MID-32A22F	1	1	1	1	1	1	1	1	1
Q202	9965 000 20922	PHOTO TRANSISTOR MID-32A22F	1	1	1	1	1	1	1	1	1
POWER CBA											
Consists of the following											
		H.V./POWER SUPPLY CBA	1	1	1	1	1	1	1	1	1
		CRT CBA	1	1	1	1	1	1	1	1	1
		H.V./POWER SUPPLY CBA	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
<b>CAPACITORS</b>											
C551		ELECTROLYTIC CAP. 2.2UF/50V M LL	1	1	1	1	1	1	1	1	1
C552		ELECTROLYTIC CAP. 1000UF/25V M	1	1	1	1	1	1	1	1	1
C553		CERAMIC CAP.(AX) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C554		ELECTROLYTIC CAP. 220UF/25V M	1	1	1	1	1	1	1	1	1
C555		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1
C556		ELECTROLYTIC CAP. 2.2UF/50V M	1	1	1	1	1	1	1	1	1
C558		FILM CAP.(P) 0.047UF/50V J	1	1	1	1	1	1	1	1	1
C559	▲ 9965 000 22652	CERAMIC CAP. R K 680PF/2KV(HR)	1	1	1	1	1	1	1	1	1
C560	▲ 9965 000 22648	P.P. CAP 0.0082UF/1.6K J	1	1	1	1	1	1	1	1	1
C561		FILM CAP.(P) 0.01UF/50V J	1	1	1	1	1	1	1	1	1
C562		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1
C565	▲ 9965 000 24185	ELECTROLYTIC CAP. 47UF/160V M W/F	1	1	1	1	1	1	1	1	1
C567		ELECTROLYTIC CAP. 1UF/160V M	1	1	1	1	1	1	1	1	1
C569	▲ 9965 000 22656	ELECTROLYTIC CAP. 4.7UF/250V M	1	1	1	1	1	1	1	1	1
C570	▲ 9965 000 13908	ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C572	▲ 4822 124 81151	ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1	1	1	1
C575	▲ 9965 000 24186	P.P. CAP 0.33UF/200V J	1	1	1	1	1	1	1	1	1
C602	▲ 2020 554 90173	SAFETY CAP. 2200PF/250V KX	1	1	1	1	1	1	1	1	1
C604	▲ 9965 000 14280	METALLIZED FILM CAP. 0.1UF/250V	1	1	1	1	1	1	1	1	1
C611	▲ 9965 000 13677	ELECTROLYTIC CAP. 100UF/400V M	1	1	1	1	1	1	1	1	1
C613		FILM CAP.(P) 0.039UF/50V J	1	1	1	1	1	1	1	1	1
C614		FILM CAP.(P) 0.0012UF/50V J	1	1	1	1	1	1	1	1	1
C615	▲ 9965 000 22657	FILM CAP.(P) 0.068UF/50V J	1	1	1	1	1	1	1	1	1
C616		CERAMIC CAP. R K 220PF/2KV(HR)	1	1	1	1	1	1	1	1	1
C617		ELECTROLYTIC CAP. 470UF/25V M							1	1	1
C618		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1
C619		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1	1	1	1
C621		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1	1	1	1
C622		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1	1	1	1
C624	▲ 9965 000 22649	CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1	1	1
C625		ELECTROLYTIC CAP. 470UF/35V M	1	1	1	1	1	1	1	1	1
C626		CERAMIC CAP. R K 680PF/2KV(HR)	1	1	1	1	1	1	1	1	1
C627	▲ 9965 000 22655	ELECTROLYTIC CAP. 100UF/160V M	1	1	1	1	1	1	1	1	1
C629		CERAMIC CAP.(AX) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1
C630		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1	1	1	1
C632		ELECTROLYTIC CAP. 100UF/16V M	1	1	1	1	1	1	1	1	1
C633		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1
C634		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1	1	1
C636		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1	1	1
<b>CONNECTORS</b>											
CN551	9965 000 13876	CONNECTOR BASE, 5P TV-50P-05-V3	1	1	1	1	1	1	1	1	1
CN552	9965 000 13912	CONNECTOR BASE, 7P TUC-P07P-B1	1	1	1	1	1	1	1	1	1
CN601	9965 000 13877	CONNECTOR BASE, 2P TV-50P-02-V3	1	1	1	1	1	1	1	1	1
CN602	9965 000 24187	CONNECTOR BASE 12P TUC-P12P-B1	1	1	1	1	1	1	1	1	1
<b>DIODES</b>											
D551	9965 000 13847	DIODE 1N5397-B	1	1	1	1	1	1	1	1	1
D553	▲ 9965 000 11210	ZENER DIODE MTZJT-7720B	1	1	1	1	1	1	1	1	1
D554	▲ 4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1
D555		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1
D556	▲ 4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1
D557	▲ 9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1	1
D558	▲ 9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1	1
D560	▲ 9965 000 13881	ZENER DIODE MTZJT-7736B	1	1	1	1	1	1	1	1	1
D562	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1
D563	9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1	1	1	1
D565	▲ 9965 000 24188	ZENER DIODE MTZJT-7736A	1	1	1	1	1	1	1	1	1
D601	▲ 9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲	12 NC	Description								
D602	▲	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1
D603	▲	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1
D604	▲	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1
D605		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D609		4822 130 33948	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1	1
D610	▲	9965 000 18164	ZENER DIODE MTZJT-7724C	1	1	1	1	1			
D610	▲	9965 000 13884	ZENER DIODE MTZJT-7720C						1	1	1
D612	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D613	▲	9965 000 18235	RECTIFIER DIODE FR202-B/P						1	1	1
D614	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1	1
D615	▲	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1
D616		9965 000 05695	ZENER DIODE MTZJT-7722B	1	1	1	1	1			
D616		9965 000 13882	ZENER DIODE MTZJT-7718B						1	1	1
D617	▲	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1	1	1
D618	▲	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1	1	1
D619	▲	4822 130 80601	SCHOTTKY BARRIER DIODE ERB81-004	1	1	1	1	1	1	1	1
D620	▲	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1
D622	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D623	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D624	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D625	▲	9965 000 23556	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1	1
D626		9965 000 13885	FAST RECOVERY DIODE CA201-4	1	1	1	1	1	1	1	1
D627	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D629		4822 130 81729	ZENER DIODE MTZJT-7733C	1	1	1	1	1	1	1	1
D630		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D630		4822 130 30621	SWITCHING DIODE 1N4148	1	1	1	1	1	1	1	1
D631		9965 000 24189	ZENER DIODE MTZJT-776.2C	1	1	1	1	1	1	1	1
D634		9965 000 19520	CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1
D635		9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1	1	1
D636	▲	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D637		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D638		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
D641		9965 000 18091	ZENER DIODE MTZJT-7715B	1	1	1	1	1	1	1	1
D642		4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1
IC's											
IC551	▲	9965 000 18120	VERTICAL OUTPUT IC LA78040A	1	1	1	1	1	1	1	1
IC601	▲	9965 000 23546	PHOTOCOUPLER PS2561L1-1-VL	1	1	1	1	1	1	1	1
COILS											
L552			PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1
L553	▲	9965 000 18121	CHOKE COIL 22UH-K	1	1	1	1	1	1	1	1
L554	▲		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1
L601	▲	9965 000 24190	LINE FILTER ELF15N005A	1	1	1	1	1	1	1	1
L603		9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1	1
TRANSISTORS											
Q551	▲	9965 000 13897	TRANSISTOR TT2084LS-YB11	1	1	1	1	1	1	1	1
Q553		9965 000 13899	TRANSISTOR 2SC1627Y-TPE2	1	1	1	1	1	1	1	1
Q554	▲	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1
Q602	▲	9965 000 13901	MOS FET 2SK2647	1	1	1	1	1	1	1	1
Q603	▲	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1
Q604	▲	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1
Q605		4822 130 63665	TRANSISTOR 2SA950(O)	1	1	1	1	1	1	1	1
Q606	▲	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1
Q607	▲	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1
Q608		9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1
RESISTORS											
R550	▲	9965 000 14867	CARBON RES. 1/4W J 680K OHM	1	1	1	1	1	1	1	1
R551			CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1	1
R552			CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
R553		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1	1	1
R554	▲ 9965 000 22680	CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1
R555		CARBON RES. 1/4W J 8.2 OHM	1	1	1	1	1	1	1	1	1
R556		CARBON RES. 1/4W J 8.2 OHM	1	1	1	1	1	1	1	1	1
R557	▲ 9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1
R558	▲	PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R559	▲ 9965 000 19516	CARBON RES. 1/4W J 1 OHM	1	1	1	1	1	1	1	1	1
R560	▲ 9965 000 19516	CARBON RES. 1/4W J 1 OHM	1	1	1	1	1	1	1	1	1
R561	▲ 9965 000 24191	CARBON RES. 1/4W J 2.2 OHM	1	1	1	1	1	1	1	1	1
R564	▲ 9965 000 14871	CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1	1	1
R565		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R566		CARBON RES. 1/4W J 470 OHM	1	1	1	1	1	1	1	1	1
R568		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R569		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1	1	1	1
R572		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1	1	1
R574		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1
R576	▲ 9965 000 24192	CARBON RES. 1/4W J 39 OHM	1	1	1	1	1	1	1	1	1
R577	▲ 9965 000 24193	METAL OXIDE FILM RES. 2W J 560 OHM	1	1	1	1	1	1	1	1	1
R578	▲ 9965 000 24192	CARBON RES. 1/4W J 39 OHM	1	1	1	1	1	1	1	1	1
R579	▲ 9965 000 19602	CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1	1	1
R580	▲ 9965 000 24192	CARBON RES. 1/4W J 39 OHM	1	1	1	1	1	1	1	1	1
R581		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1	1	1
R583		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R584	▲ 9965 000 22680	CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1
R585	▲ 9965 000 22662	CARBON RES. 1/4W J 180K OHM	1	1	1	1	1	1	1	1	1
R586		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1	1	1
R587		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1	1	1
R588	▲ 9965 000 22684	CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1	1	1
R589	▲ 9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1
R590	▲ 9965 000 22674	METAL OXIDE FILM RES. 2W J 2.2 OHM	1	1	1	1	1	1	1	1	1
R591	▲ 9965 000 22684	CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1	1	1
R592	▲ 9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1
R593		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1	1	1
R594		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1	1	1
R595		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R596		CARBON RES. 1/4W J 8.2 OHM	1	1	1	1	1	1	1	1	1
R597	▲ 9965 000 24194	CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1	1	1	1
R598	▲ 9965 000 22667	CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1	1	1
R601	▲ 9965 000 22668	ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1	1	1
R602	▲ 9965 000 22668	ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1	1	1
R603	▲ 9965 000 22668	ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1	1	1
R604	▲ 9965 000 24195	CEMENT RESISTOR 5W J 1.8 OHM	1	1	1	1	1	1	1	1	1
R605		CARBON RES. 1/4W J 56 OHM	1	1	1	1	1	1	1	1	1
R611		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1	1	1
R612		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1			
R612		CARBON RES. 1/4W J 180 OHM							1	1	1
R613		CARBON RES. 1/4W J 390K OHM	1	1	1	1	1	1			
R615		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1			
R615		CARBON RES. 1/4W J 1K OHM							1	1	1
R616	▲ 9965 000 22663	CARBON RES. 1/4W J 22 OHM	1	1	1	1	1	1	1	1	1
R617	▲ 9965 000 14278	CEMENT RESISTOR 5W J 0.68 OHM	1	1	1	1	1	1	1	1	1
R618		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R619		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1	1	1
R620	▲ 9965 000 24196	CARBON RES. 1/4W J 820K OHM	1	1	1	1	1	1	1	1	1
R621		CARBON RES. 1/4W J 560K OHM	1	1	1	1	1	1	1	1	1
R622		CARBON RES. 1/4W J 680K OHM	1	1	1	1	1	1	1	1	1
R624		CARBON RES. 1/4W J 680K OHM	1	1	1	1	1	1	1	1	1
R625	▲ 9965 000 15270	CARBON RES. 1/4W J 1.2K OHM							1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
R626	▲	9965 000 15270	CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1	1
R627			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
R628	▲	9965 000 19514	CARBON RES. 1/4W J 820 OHM	1	1	1	1	1	1	1	1
R631	▲	9965 000 22687	CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1	1
R632	▲	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1
R633	▲	9965 000 19518	CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1	1
R634	▲	9965 000 19518	CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1	1
R635	▲	9965 000 22682	CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1	1	1
R636	▲	9965 000 14870	CARBON RES. 1/4W G 1K OHM	1	1	1	1	1	1	1	1
R637	▲	9965 000 23547	CARBON RES. 1/4W G 5.6K OHM	1	1	1	1	1	1	1	1
R638	▲	9965 000 23549	CARBON RES. 1/4W G 39K OHM	1	1	1	1	1	1	1	1
R639	▲	9965 000 23549	CARBON RES. 1/4W G 39K OHM	1	1	1	1	1	1	1	1
R640	▲	9965 000 22686	CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1
R641	▲	9965 000 24197	METAL OXIDE FILM RES. 1W J 1K OHM	1	1	1	1	1	1	1	1
R642	▲	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1
R643	▲	9965 000 22686	CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1
R644	▲	9965 000 22686	CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1
R645	▲	9965 000 22667	CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1	1
R646	▲	9965 000 22660	CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1
R647	▲	9965 000 22686	CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1
R649	▲	9965 000 22688	CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1	1
R651			CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1
R652	▲		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1	1	1
R653	▲	9965 000 22681	CARBON RES. 1/4W J 150 OHM	1	1	1	1	1	1	1	1
R654	▲	9965 000 22664	CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1	1
R655			CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1	1
R656			CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1	1
R657	▲	9965 000 22683	CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1	1
R658	▲	9965 000 22670	METAL OXIDE FILM RES. 2W J 10K OHM	1	1	1	1	1	1	1	1
R659	▲	9965 000 22670	METAL OXIDE FILM RES. 2W J 10K OHM	1	1	1	1	1	1	1	1
R660			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
R661			CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1	1
R662			CARBON RES. 1/4W J 820K OHM	1	1	1	1	1	1	1	1
R663			CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1	1
SW601	▲	9965 000 13902	POWER SWITCH SDKVA30100	1	1	1	1	1	1	1	1
BC551		9965 000 13874	BEAD INDUCTORS FBA04HA600VB-00	1	1	1	1	1	1	1	1
BC602		9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1	1	1
BC604			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
BC605			PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1
			MISCELLANEOUS								
CL501A		9965 000 18126	LEAD WIRE 3P/230	1	1	1	1	1	1	1	1
F601	▲	9965 000 13890	FUSE 4A/250V 215004	1	1	1	1	1	1	1	1
FH601		4822 256 10461	FUSE HOLDER MSF-015	1	1	1	1	1	1	1	1
FH602		4822 256 10461	FUSE HOLDER MSF-015	1	1	1	1	1	1	1	1
PB1		9965 000 18122	POWER PCB HOLDER T6400RA	1	1	1	1	1	1	1	1
PB4		9965 000 18111	13V POW HEAT SINK PAL PHKT6400RA	1	1	1	1	1	1	1	1
PB5		9965 000 18123	13V P H/S PAL PHM ASSEMBLY T6400RA	1	1	1	1	1	1	1	1
PL1		9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1	1	1
PL2		9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1	1
PS602	▲	9965 000 13896	THERMISTOR ZPB31BL9R0A	1	1	1	1	1	1	1	1
SA601	▲	9965 000 20946	SURGE ABSORBER 470V+-10PER	1	1	1	1	1	1	1	1
T551	▲	9965 000 18124	FLYBACK TRANS BSC23-2603S	1	1	1	1	1	1	1	1
T552	▲	9965 000 13904	HORIZONTAL DRIVE TRANS LP2-005	1	1	1	1	1	1	1	1
T601	▲	9965 000 24198	SWITCHING TRANS 04705	1	1	1	1	1			
T601	▲	9965 000 24202	SWITCHING TRANS 04703						1	1	1
TM601		9965 000 22702	TAB 42018	1	1	1	1	1	1	1	1
TM602		9965 000 22702	TAB 42018	1	1	1	1	1	1	1	1
TP501			PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1

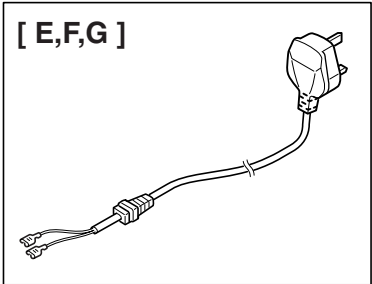


ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
TP502		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1
TP503		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1	1	1	1
TP504		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1	1	1	1
VR601	▲ 9965 000 23550	CARBON P.O.T. 20K OHM B	1	1	1	1	1	1	1	1	1
CRT CBA											
CAPACITORS											
C501		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1	1	1
C502		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1	1	1
C503		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1	1	1
C504		CERAMIC CAP. B K 1000PF/2KV	1	1	1	1	1	1	1	1	1
C505		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1
CONNECTORS											
CN501	9965 000 13911	PIN CONNECTOR 005P-5100	1	1	1	1	1	1	1	1	1
CN502	9965 000 05247	CONNECTOR BASE, 4P TUC-P04P-B1	1	1	1	1	1	1	1	1	1
COILS											
L501		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
TRANSISTORS											
Q501	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1	1	1
Q502	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1	1	1
Q503	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1	1	1
RESISTORS											
R501	▲ 4822 053 10183	METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1	1	1	1
R502	▲ 4822 053 10183	METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1	1	1	1
R503	▲ 4822 053 10183	METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1	1	1	1
R504		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R505		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R506		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R507		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R510		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R511		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R512		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R513		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1
R514		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1
R515		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1	1	1
R516		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1	1
R517		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1	1	1
R518		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1	1	1
R519		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1	1
R520		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1	1	1
R521		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1	1	1
R522		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1	1
R523		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1	1	1
JK501	▲ 9965 000 13913	CRT SOCKET ISMS01S	1	1	1	1	1	1	1	1	1
TEXT CBA											
CAPACITORS											
C901		ELECTROLYTIC CAP. 22UF/50V M				1	1	1	1	1	1
C902		CERAMIC CAP.(AX) B K 100PF/50V				1	1	1	1	1	1
C903		ELECTROLYTIC CAP. 0.1UF/50V M				1	1	1	1	1	1
C904		ELECTROLYTIC CAP. 0.1UF/50V M				1	1	1	1	1	1
C905		CERAMIC CAP.(AX) Y M 0.01UF/16V				1	1	1	1	1	1
C906		ELECTROLYTIC CAP. 100UF/10V M				1	1	1	1	1	1
C916		CERAMIC CAP.(AX) CH J 18PF/50V				1	1	1	1	1	1
C917		CERAMIC CAP.(AX) CH J 18PF/50V				1	1	1	1	1	1
C920		CERAMIC CAP.(AX) Y M 0.01UF/16V				1	1	1	1	1	1
C921		ELECTROLYTIC CAP. 100UF/10V M				1	1	1	1	1	1
C922		ELECTROLYTIC CAP. 100UF/10V M				1	1	1	1	1	1
C923		ELECTROLYTIC CAP. 100UF/10V M				1	1	1	1	1	1
C926		CERAMIC CAP.(AX) Y M 0.01UF/16V				1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲	12 NC	Description								
<b>CONNECTORS</b>											
CN901		9965 000 13916	CONNECTOR, 8P TUC-P08X-B1				1	1	1	1	1
CN902		9965 000 13917	CONNECTOR, 6P TUC-P06X-B1				1	1	1	1	1
<b>DIODES</b>											
D901		4822 130 32778	SWITCHING DIODE 1SS133(T-77)				1	1	1	1	1
D902		4822 130 32778	SWITCHING DIODE 1SS133(T-77)				1	1	1	1	1
D903		9965 000 18140	ZENER DIODE MTZJT-773.6B				1	1	1	1	1
D904		4822 130 32778	SWITCHING DIODE 1SS133(T-77)				1	1	1	1	1
D905		4822 130 32778	SWITCHING DIODE 1SS133(T-77)				1	1	1	1	1
D906		4822 130 32778	SWITCHING DIODE 1SS133(T-77)				1	1	1	1	1
D907		4822 130 32778	SWITCHING DIODE 1SS133(T-77)				1	1	1	1	1
D908		9965 000 18119	ZENER DIODE DZ-3.3BSBT265				1	1	1	1	1
D909		9965 000 18119	ZENER DIODE DZ-3.3BSBT265				1	1	1	1	1
<b>IC's</b>											
IC901		9965 000 18141	IC:TEXT SAA5265				1	1	1	1	1
<b>COILS</b>											
L901		9965 000 18142	INDUCTOR 10UH-J-26T				1	1	1	1	1
L902		9965 000 18142	INDUCTOR 10UH-J-26T				1	1	1	1	1
<b>TRANSISTORS</b>											
Q901		9965 000 05643	TRANSISTOR 2SC2785(F)				1	1	1	1	1
<b>RESISTORS</b>											
R901			CARBON RES. 1/4W J 1.2K OHM				1	1	1	1	1
R902			CARBON RES. 1/4W J 1K OHM				1	1	1	1	1
R903			CARBON RES. 1/4W J 24K OHM				1	1	1	1	1
R904			CARBON RES. 1/4W J 10K OHM				1	1	1	1	1
R905			CARBON RES. 1/4W J 10K OHM				1	1	1	1	1
R906			CARBON RES. 1/4W J 1.5K OHM				1	1	1	1	1
R908			CARBON RES. 1/4W J 1.5K OHM				1	1	1	1	1
R911			CARBON RES. 1/4W J 1.5K OHM				1	1	1	1	1
R912			CARBON RES. 1/4W J 1K OHM				1	1	1	1	1
R913			PCB JUMPER D0.6-P5.0				1	1	1	1	1
R914			PCB JUMPER D0.6-P5.0				1	1	1	1	1
R915			PCB JUMPER D0.6-P5.0				1	1	1	1	1
R916			CARBON RES. 1/4W J 220 OHM				1	1	1	1	1
R918			METAL OXIDE FILM RES. 2W J 56 OHM				1	1	1	1	1
R919			PCB JUMPER D0.6-P5.0				1	1	1	1	1
R920			PCB JUMPER D0.6-P5.0				1	1	1	1	1
R921			CARBON RES. 1/4W J 3.3K OHM				1	1	1	1	1
R922			CARBON RES. 1/4W J 3.3K OHM				1	1	1	1	1
R923			CARBON RES. 1/4W J 3.3K OHM				1	1	1	1	1
R924			CARBON RES. 1/4W J 1K OHM				1	1	1	1	1
R925			CARBON RES. 1/4W J 10 OHM				1	1	1	1	1
R926			CARBON RES. 1/4W J 4.7K OHM				1	1	1	1	1
R927			CARBON RES. 1/4W J 1K OHM				1	1	1	1	1
X901		9965 000 12194	X'TAL 12.000MHZ				1	1	1	1	1

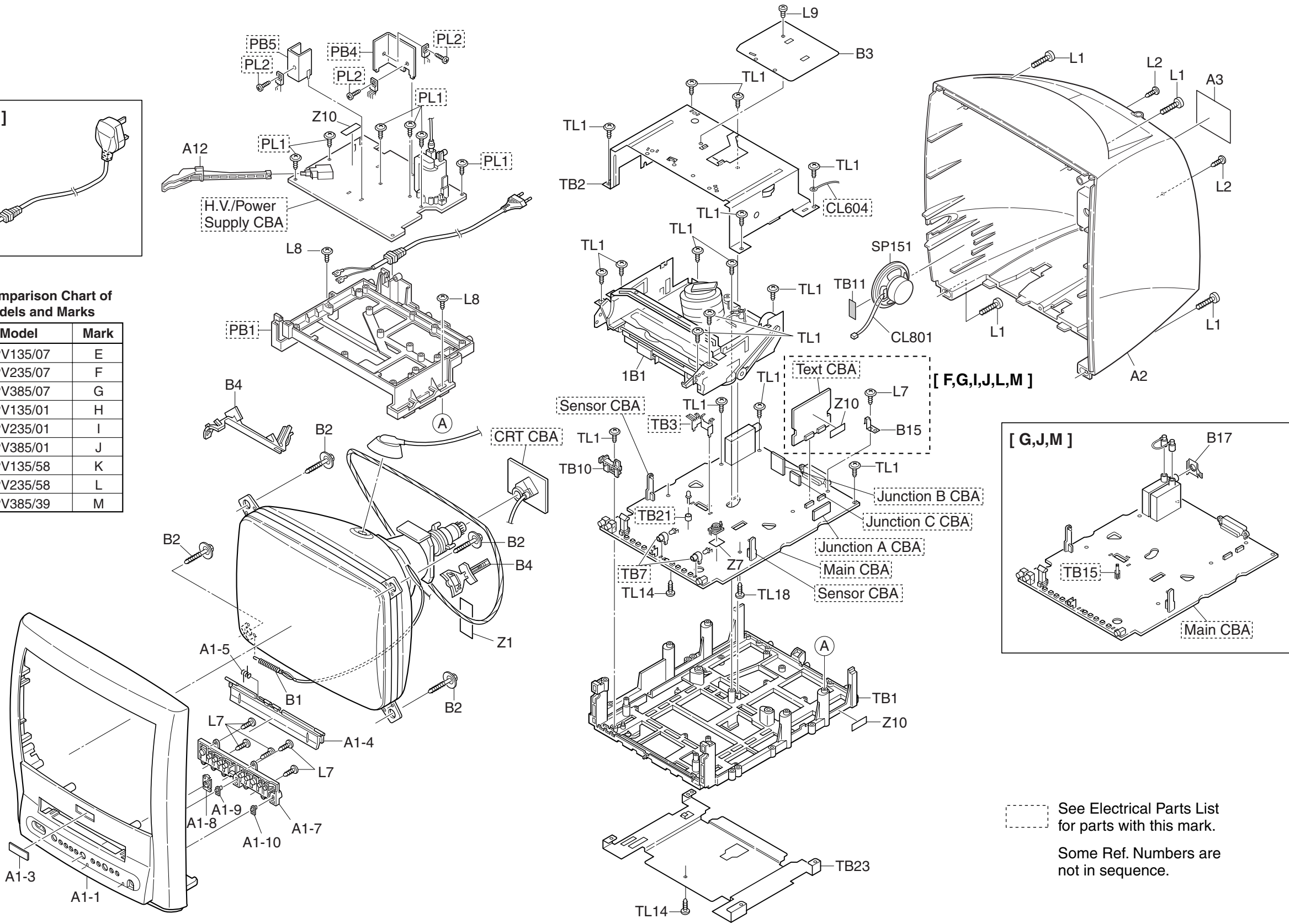
EXPLODED VIEWS

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58), 14PV385/ (01, 07, 39) ]  
Cabinet



Comparison Chart of Models and Marks

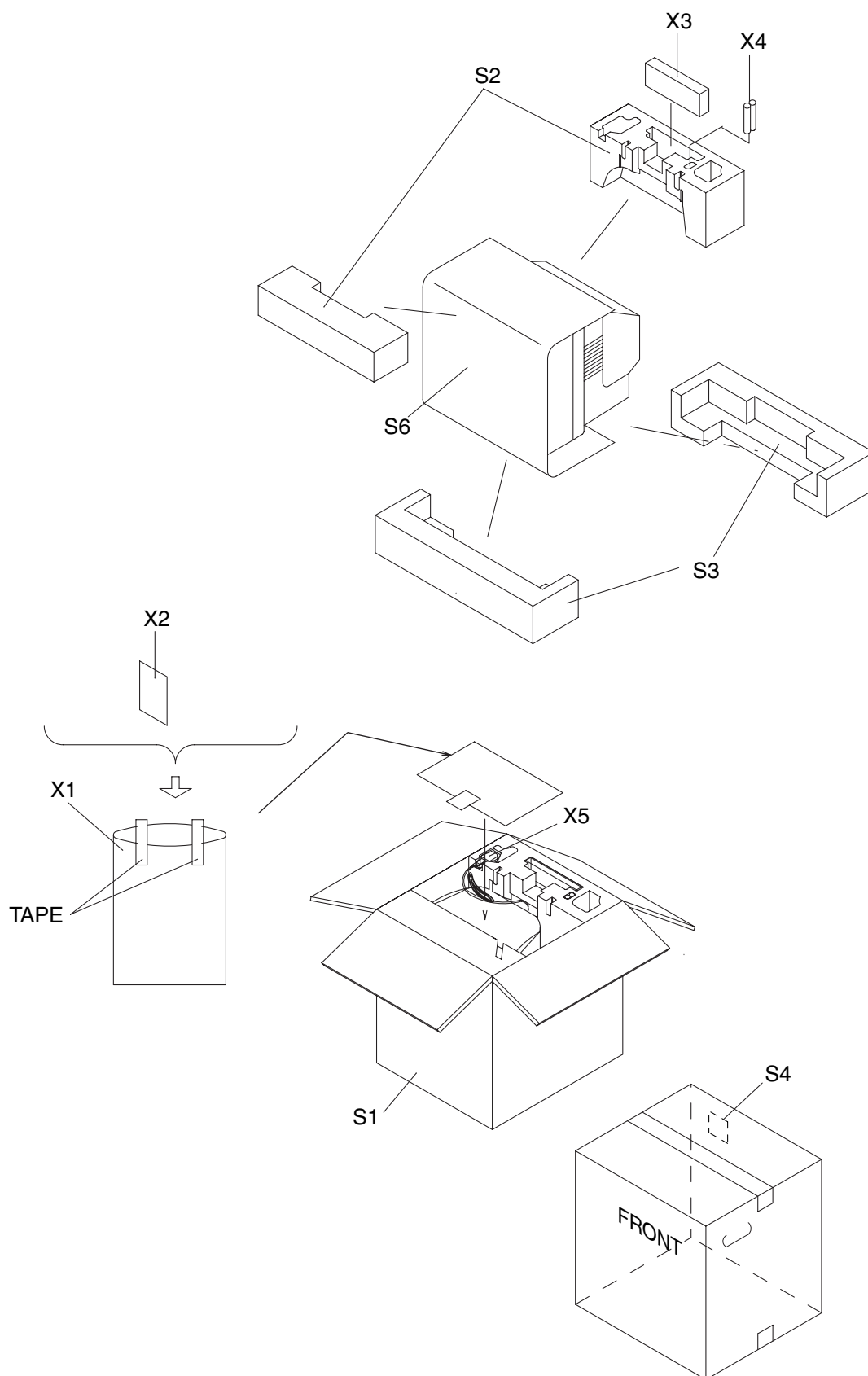
Model	Mark
14PV135/07	E
14PV235/07	F
14PV385/07	G
14PV135/01	H
14PV235/01	I
14PV385/01	J
14PV135/58	K
14PV235/58	L
14PV385/39	M



See Electrical Parts List  
for parts with this mark.  
Some Ref. Numbers are  
not in sequence.

[ 14PV135/ (01, 07, 58), 14PV235/ (01, 07, 58), 14PV385/ (01, 07, 39) ]

## Packing



**PRODUCT SAFETY NOTE:** Products marked with a ▲

have special characteristics important to safety.

Before replacing any of these components, read carefully

the product safety notice in this service manual.

Don't degrade the safety of the product through improper servicing.

**\*)Note:**

Pos.1 consists of	A1-1	A1-8
	A1-3	A1-9
	A1-4	A1-10
	A1-5	L7
	A1-7	

MECHANICAL PARTS LIST					14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	Pos. Expl. View	▲	12 NC	Description									
0001	*)		3143 027 60461	FRONT ASSY 14PV135/01/07/58	1	1	1						
0001	*)		3143 027 60481	FRONT ASSY 14PV235/01/07/58				1	1	1			
0001	*)		3143 027 60491	FRONT ASSY 14PV385/01							1		
0001	*)		3143 027 60501	FRONT ASSY 14PV385/07								1	
0001	*)		3143 027 60511	FRONT ASSY 14PV385/39									1
0001	A1-1			FRONT CAB PH01 LIGHT GREY				1	1	1			
0001	A1-1			FRONT CAB (A) GR PH001	1	1	1				1	1	1
0011	A1-3			WORDMARK PHILIPS	1	1	1	1	1	1	1	1	1
0005	A1-4			CASSETTE DOOR (A) GR PH001	1	1	1				1	1	1
0005	A1-4			CASSETTE DOOR PH01 LIGHT GREY				1	1	1			
0006	A1-5			LEG SPRING	1	1	1	1	1	1	1	1	1
0009	A1-7			FUNCTION KNOB (A) GR PH001	1	1	1				1	1	1
0009	A1-7			FUNCTION KNOB PH01 LIGHT GREY				1	1	1			
0007	A1-8			LED LENS B (C)				1	1	1			
0007	A1-8			LED LENS A (C)	1	1	1				1	1	1
0008	A1-9			LED LENS A (R)	1	1	1				1	1	1
0008	A1-9			LED LENS B (R)				1	1	1			
0010	L7		4822 502 14109	SCR PAN TORX TAP ST ZN BK 3X10	1	1	1	1	1	1	1	1	1
0031	B15		3143 021 20021	TE HOLDER				1	1	1	1	1	1
0055	L1		4822 502 14062	SCREW	1	1	1	1	1	1	1	1	1
0056	L2			TORX HEAD TAPPING SCREW M4X12	1	1	1	1	1	1	1	1	1
0059	TL1		4822 502 14109	SCR PAN TORX TAP ST ZN BK 3X10				1	1	1	1	1	1
0070	A2		3143 027 50131	REAR CAB PH001	1	1	1	1	1	1	1	1	1
0071	A12		3143 027 50191	POWER BUTTON PH001	1	1	1	1	1	1	1	1	1
1010	(SP151+ CL801)		9965 000 18085	SPEAKER ASSY	1	1	1	1	1	1	1	1	1
0002	B4		4822 402 10174	BRACKET ==>14"	1	1	1	1	1	1	1	1	1
0004	B15		3143 021 20031	TENSION SPRING	1	1	1	1	1	1	1	1	1
0030	B3		3143 021 20011	SCREENING	1	1	1	1	1	1	1	1	1
0015			3143 027 50351	CABLE CLAMP	1	1	1	1	1	1	1	1	1
0054	B2			SCREW ==>CRT	1	1	1	1	1	1	1	1	1
0057	L8			FLAT HEAD SCREW 4X18	1	1	1	1	1	1	1	1	1
1100				CRT A34EAC01X71 (LGPD) B	1	1	1	1	1	1	1	1	1
1B1				DECK ASSEMBLY CZD013/VM2326	1	1	1	1	1	1			
1B1				DECK ASSEMBLY CZD013/VM23A6							1	1	1
TB1				TRAY CHASSIS T6400RA	1	1	1	1	1	1	1	1	1
TB2				TOP COVER T6300RA	1	1	1	1	1	1	1	1	1
TB10			9965 000 18086	RCA HOLDER T6400RA	1	1	1	1	1	1	1	1	1
TB11				CLOTH(10X30XT:0.3) T5300UA	1	1	1	1	1	1	1	1	1
TB23				BOTTOM PLATE T6300RA	1	1	1	1	1	1	1	1	1
TL1			9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1	1	1	1

TL14		9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1	1	1	1
TL18		9965 000 13027	SCREW, P-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1	1	1	1
<b>PACKING</b>													
0450	S1		BOX FOLDED 14PV235				1	1	1				
0450	S1		BOX FOLDED 14PV135	1	1	1							
0450	S1		BOX FOLDED 14PV385							1	1	1	
0453	S2		STYROFOAM TOP A	1	1	1				1	1	1	
0453	S2		STYROFOAM TOP B				1	1	1				
0454	S2		STYROFOAM BOTTOM A	1	1	1				1	1	1	
0454	S2		STYROFOAM BOTTOM B				1	1	1				
0455	X1		BAG (==>MAINS CORD)	1	1	1	1	1	1	1	1	1	1
0469	S6		TOPFOIL	1	1	1	1	1	1	1	1	1	1
0471			STRETCHFOIL 500/15	1	1	1	1	1	1	1	1	1	1
0150	X3	9965 000 18138	RC RT350/111	1	1	1							
0150	X3	9965 000 18139	RC RT351/111				1	1	1				
0150	X3	9965 000 18143	RC RT352/111							1	1	1	
<b>TEST TAPES</b>													
0001		3143 023 20011	TEST TAPE FL6K(S)	1	1	1	1	1	1	1	1	1	1
0002		3143 023 20021	TEST TAPE FL6NS8	1	1	1	1	1	1	1	1	1	1
0003		3143 023 20051	TEST TAPE E-120 HS	1	1	1	1	1	1	1	1	1	1
0004		3143 023 20041	TEST TAPE FL6M	1	1	1	1	1	1	1	1	1	1

# STANDARD MAINTENANCE

[ 14PV385/ (01, 07, 39) ]

## Service Schedule of Components

This maintenance chart shows you the standard of replacement and cleaning time for each part.  
Because those may replace depending on environment and purpose for use, use the chart for reference.

H: Hours    ○: Cleaning    ●: Replace

Deck		Periodic Service Schedule			
Ref.No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	○	●	○	●
B3	Loading Motor Assembly			●	
B8	Pulley Assembly		●		●
B587	Tension Lever Assembly		●		●
B31	ACE Head Assembly			●	
B573, B574	Reel S, Reel T			●	
B37	Capstan Motor		●		●
B52	Cap Belt		●		●
*B73	FE Head			●	
*B86	F Brake Assembly (HI)		●		●
B133	Idler Assembly (HI)		●		●
B410	Pinch Arm Assembly		●		●
B414	M Brake (SP) Assembly (HI)		●		●
B416	M Brake (TU) Assembly (HI)		●		●
B525	LDG Belt		●		●

### Notes:

1. Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / ACE Head / FE Head) using 90% Isopropyl Alcohol.
2. After cleaning the parts, do all DECK ADJUSTMENTS.
3. For the reference numbers listed above, refer to Deck Exploded Views.
  - \* B73 ----- Recording model only
  - \* B86 ----- Not used in 2 head model.

## Cleaning

### Cleaning of Video Head

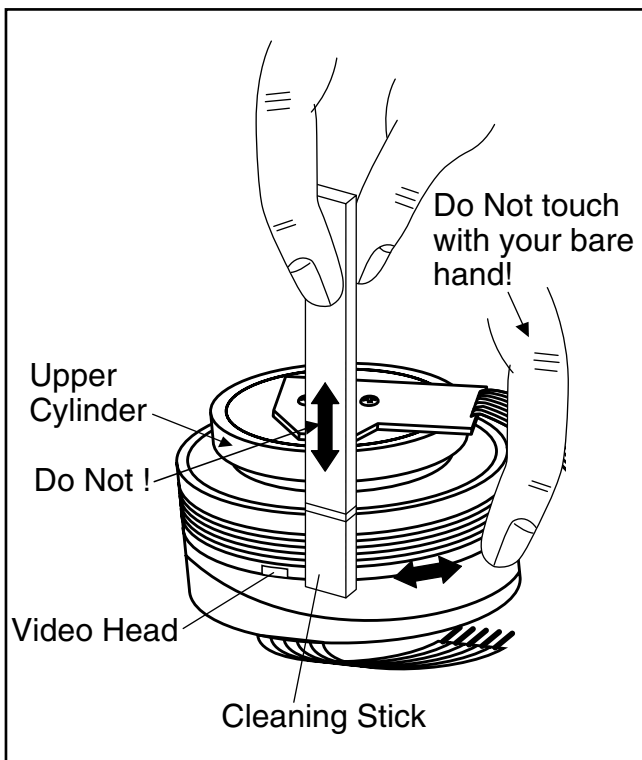
Clean the head with a head cleaning stick or chamois cloth.

#### Procedure

1. Remove the top cabinet.
2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
3. Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

#### Notes:

1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit.
3. Do not reuse a stained head cleaning stick or a stained chamois cloth.



### Cleaning of ACE Head

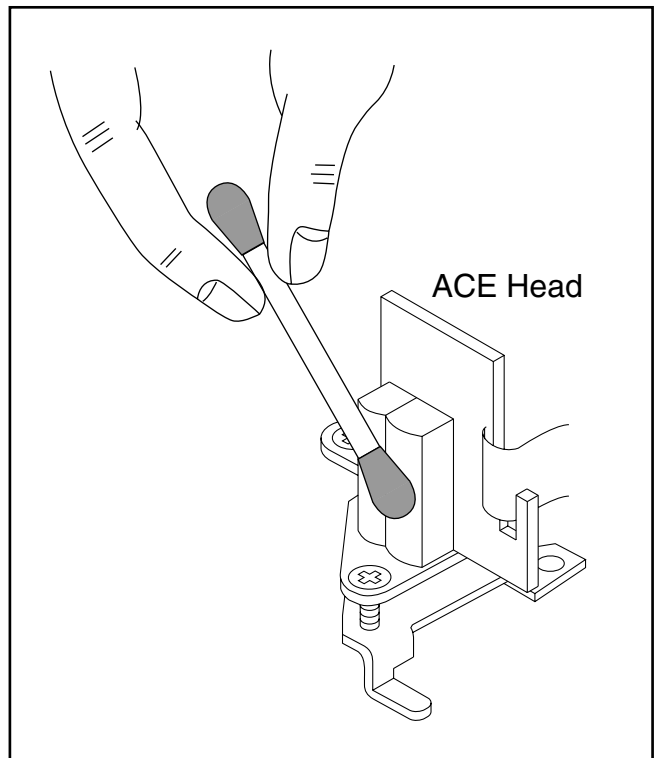
Clean the head with a cotton swab.

#### Procedure

1. Remove the top cabinet.
2. Dip the cotton swab in 90% isopropyl alcohol and clean the ACE Head. Be careful not to damage the upper drum and other tape running parts.

#### Notes:

1. Avoid cleaning the ACE Head vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.





# DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

## [ 14PV385/ (01, 07, 39) ]

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS on page 1-5-6.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [44] and [45] in Fig. DM1H on page 2-4-12. When reassembling, follow the steps in reverse order.

STEP /LOC. No.	START- ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Guide Holder A	T	DM3H	2(S-1)	
[2]	[1]	Cassette Holder Assembly	T	DM4H	(S-10)	
[3]	[2]	Slider (SP)	T	DM5H	(S-1A), *(L-1)	
[4]	[2]	Slider (TU)	T	DM5H	*(L-2)	
[5]	[4]	Lock Lever	T	DM5H	*(L-3), *(P-1)	
[6]	[2]	Cassette Plate	T	DM5H		
[7]	[7]	Cylinder Assembly	T	DM1H, DM6H	Desolder, 3(S-2)	
[8]	[8]	Loading Motor Assembly	T	DM1H, DM7H	Desolder, LDG Belt, 2(S-3)	
[9]	[9]	ACE Head Assembly	T	DM1H, DM7H	(S-4)	
[10]	[2]	Tape Guide Arm Assembly	T	DM1H, DM8H-1	*(P-2)	
[11]	[10]	C Door Opener	T	DM1H, DM8H-1	(S-4A), *(L-4)	
[12]	[11]	Pinch Arm (B)	T	DM1H, DM8H-1, DM8H-2	*(P-3)	
[13]	[12]	Pinch Arm (A) Assembly	T	DM1H, DM8H-1, DM8H-2		
[14]	[14]	FE Head	T	DM1H, DM9H	(S-5)	
[15]	[15]	Prism	T	DM1H, DM9H	(S-6)	
[16]	[2]	Slider Shaft	T	DM10H	*(L-5)	
[17]	[16]	C Drive Lever (SP)	T	DM10H		
[18]	[16]	C Drive Lever (TU)	T	DM10H	(S-7), *(P-4)	
[19]	[19]	Capstan Motor	B	DM2H, DM11H	3(S-8), Cap Belt	
[20]	[20]	Clutch Assembly (HI)	B	DM2H, DM12H	(C-1)	
[21]	[20]	Center Gear	B	DM12H		
*[22]	[22]	F Brake Assembly (HI)	B	DM2H, DM12H	*(L-6)	
[23]	[22]	Worm Holder	B	DM2H, DM13H-1	(S-9), *(L-7), *(L-8)	
[24]	[22]	Pulley Assembly (HI)	B	DM2H, DM13H-1		
[25]	[25]	Mode Gear (LM)	B	DM2H, DM13H-1	(C-2)	
[26]	[20],[25]	Mode Lever (HI)	B	DM2H, DM13H-1, DM13H-2	(C-3)	
[27]	[22],[23], [26]	Cam Gear (A) (HI)	B	DM2H, DM13H-1, DM13H-2	(C-4)	(+)Refer to Alignment Sec. Page 2-5-2
[28]	[26]	TR Gear C	B	DM2H, DM13H-1	(C-5)	
[29]	[28]	TR Gear Spring	B	DM13H-1		
[30]	[29]	TR Gear A/B	B	DM13H-1		

STEP /LOC. No.	START-ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[31]	[31]	FF Arm (HI)	B	DM1H, DM14H		
[32]	[26]	Idler Assembly (HI)	B	DM1H, DM14H	*(L-9)	
[33]	[26]	BT Arm	B	DM2H, DM14H	*(P-5)	
[34]	[26]	Loading Arm (SP) Assembly	B	DM2H, DM14H		(+)Refer to Alignment Sec.Page 2-5-2
[35]	[34]	Loading Arm (TU) Assembly	B	DM2H, DM14H		(+)Refer to Alignment Sec.Page 2-5-2
[36]	[16],[26]	M Brake (TU) Assembly (HI)	T	DM1H, DM15H		
[37]	[2],[26]	M Brake (SP) Assembly (HI)	T	DM1H, DM15H	*(P-6)	
[38]	[37]	Tension Lever Assembly	T	DM1H, DM15H		
[39]	[38]	T Lever Holder	T	DM15H	*(L-10)	
[40]	[40]	M Gear (HI)	T	DM1H, DM15H	(C-6)	
[41]	[15],[40]	Sensor Gear (HI)	T	DM1H, DM15H	(C-7)	
[42]	[36],[40]	Reel T	T	DM1H, DM15H		
[43]	[38]	Reel S	T	DM1H, DM15H		
[44]	[34],[38]	Moving Guide S Preparation	T	DM1H, DM16H		
[45]	[35]	Moving Guide T Preparation	T	DM1H, DM16H		
[46]	[19]	TG Post Assembly	T	DM1H, DM16H	*(L-11)	
[47]	[27]	Rack Assembly	R	DM17H	*(P-9)	(+)Refer to Alignment Sec.Page 2-5-2
[48]	[47]	F Door Opener	R	DM17H		
[49]	[49]	Cleaner Assembly	T	DM1H, DM6H		
[50]	[49]	CL Post	T	DM6H	*(L-12)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.

These numbers are also used as identification (location) No. of parts in the figures.

(2): Indicates the part to start disassembling with in order to disassemble the part in column (1).

(3): Name of the part

(4): Location of the part: T=Top B=Bottom R=Right L=Left

(5): Figure Number

(6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, W=Washer, C=Cut Washer, S=Screw, \*=Unhook, Unlock, Release, Unplug, or Desolder

e.g., 2(L-2) = two Locking Tabs (L-2).

(7): Adjustment Information for Installation

(+):Refer to Deck Exploded Views for lubrication.

**\* [ 22 ] F Brake Assembly (HI) is not used in 2 head model.**

## Top View

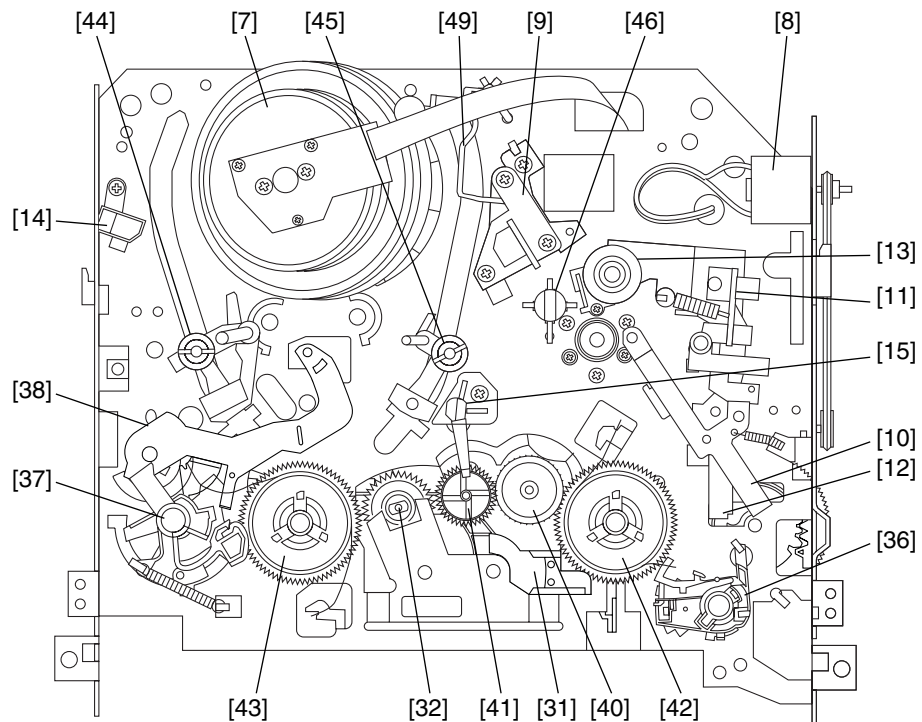


Fig. DM1H

## Bottom View

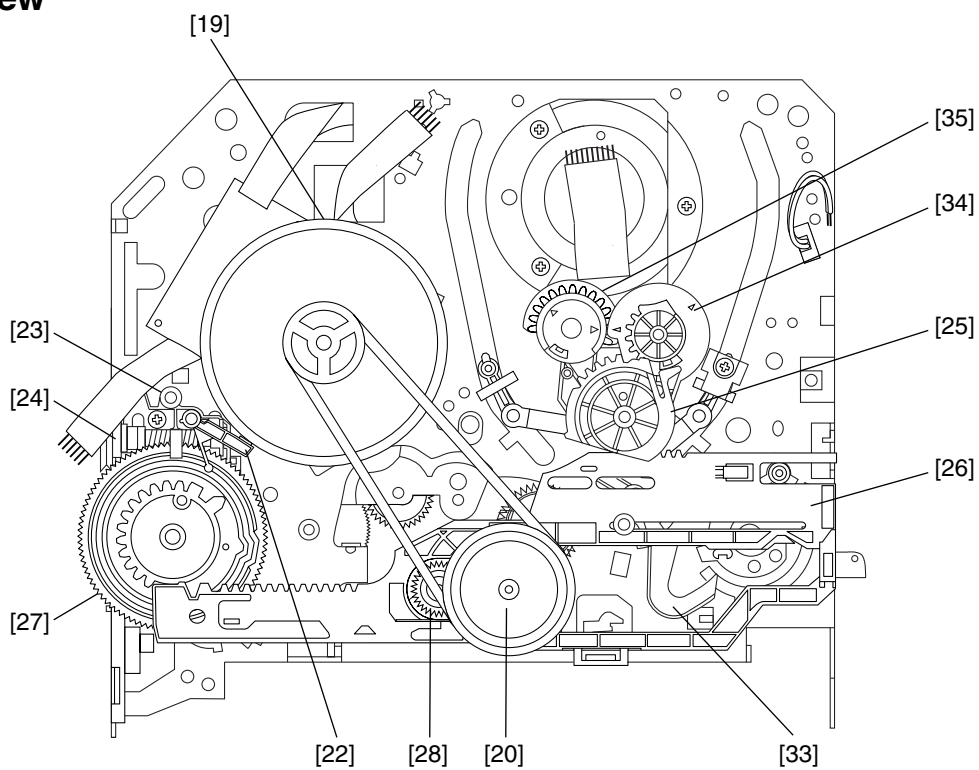
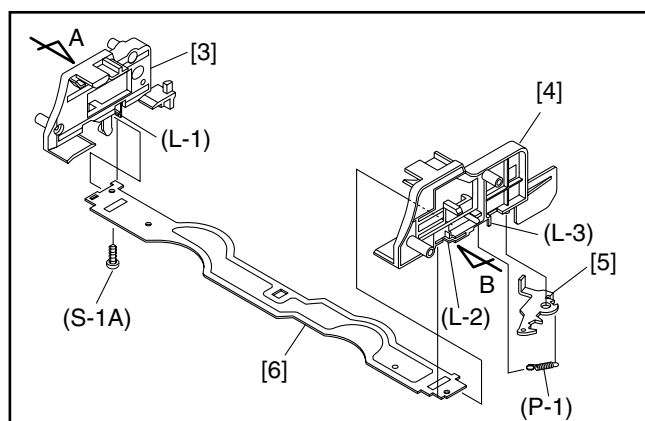
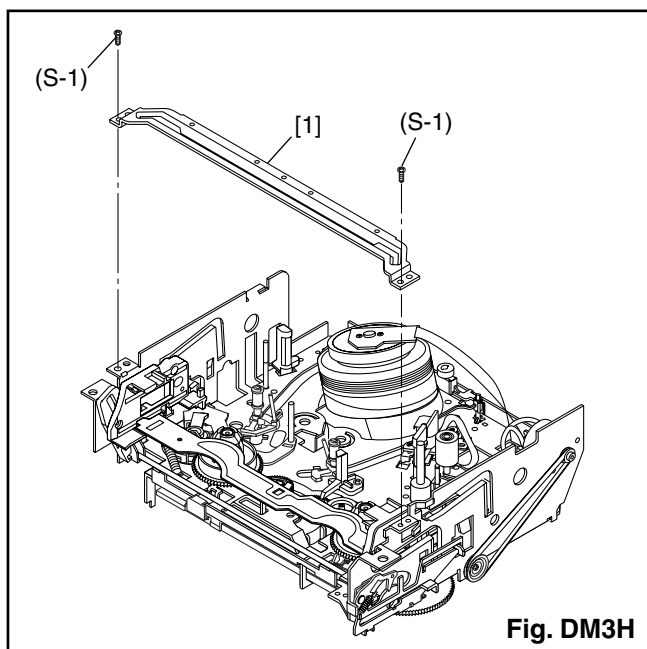
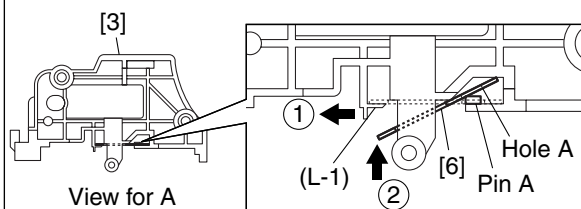


Fig. DM2H



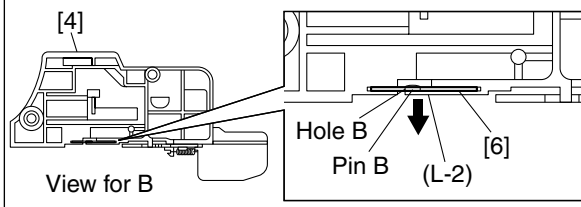
#### Installation of [3] and [6]

First, insert [6] diagonally in [3] as shown below. Then, install [6] in [3] while pushing (L-1) in a direction of arrow. After installing [6] in [3], confirm that pin A of [3] enters hole A of [6] properly.

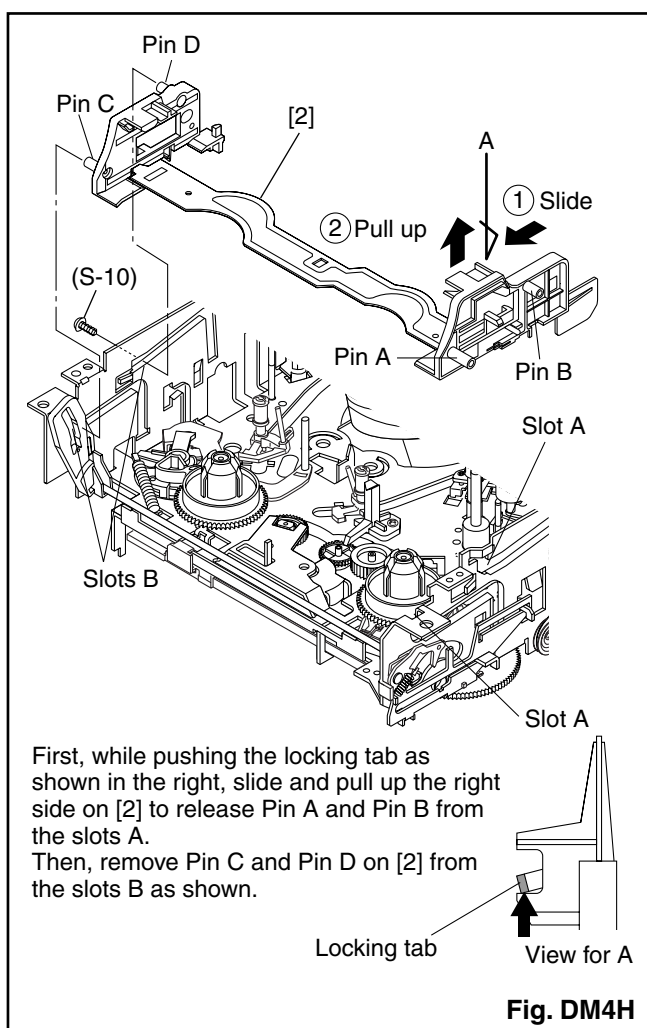


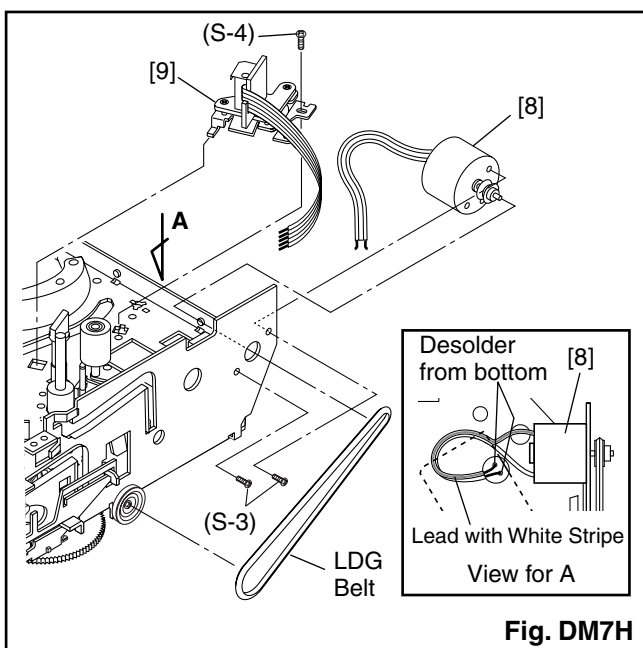
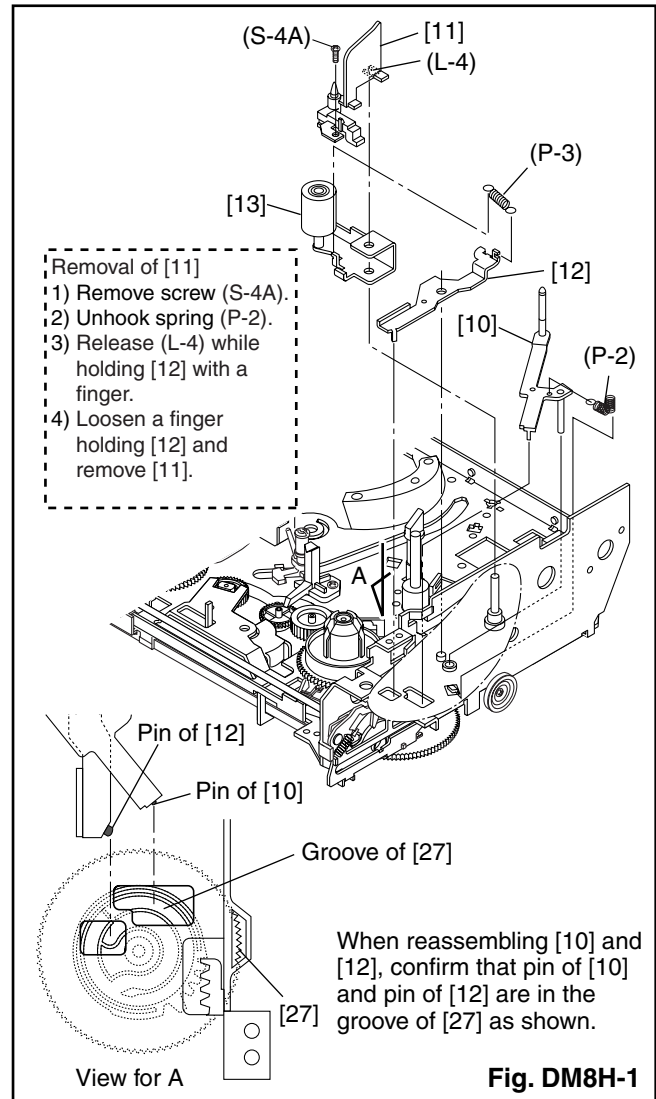
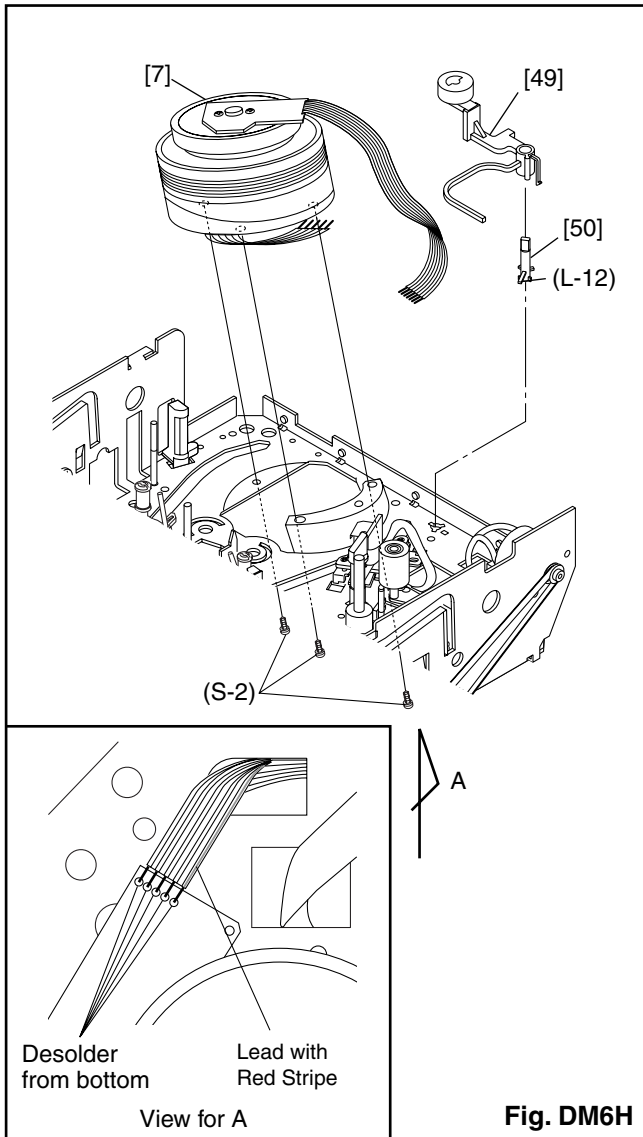
#### Installation of [4] and [6]

Install [6] in [4] while pulling (L-2) in a direction of arrow. After installing [6] in [4], confirm that pin B of [4] enters hole B of [6] properly.



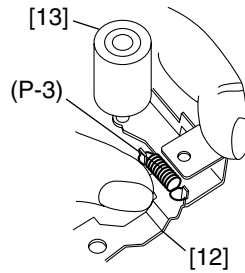
**Fig. DM5H**





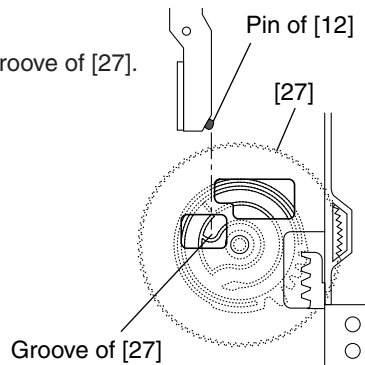
## Installation of [13] and [12]

Hook spring (P-3) up to [12] and [13], then install then to the specified position so that [12] will be floated slightly while holding [12] and [13]. (Refer to Fig. A.)



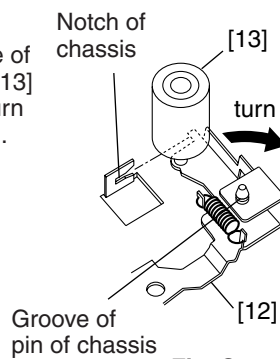
**Fig. A**

Install pin of [12] in groove of [27]. (Refer to Fig. B.)



**Fig. B (Top view)**

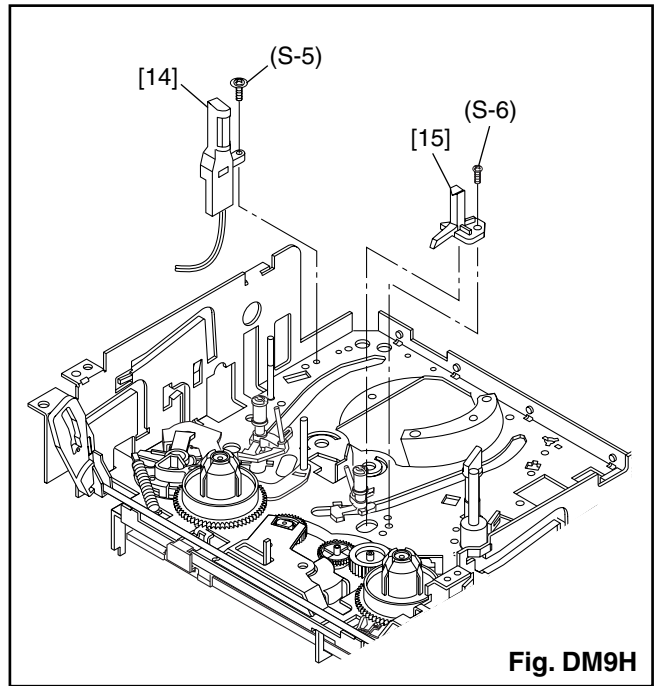
Hold [12] and [13] till groove of pin of chassis looks and fit [13] in notch of chassis. Then, turn a few [13] while holding [12]. (Refer to Fig. C.)



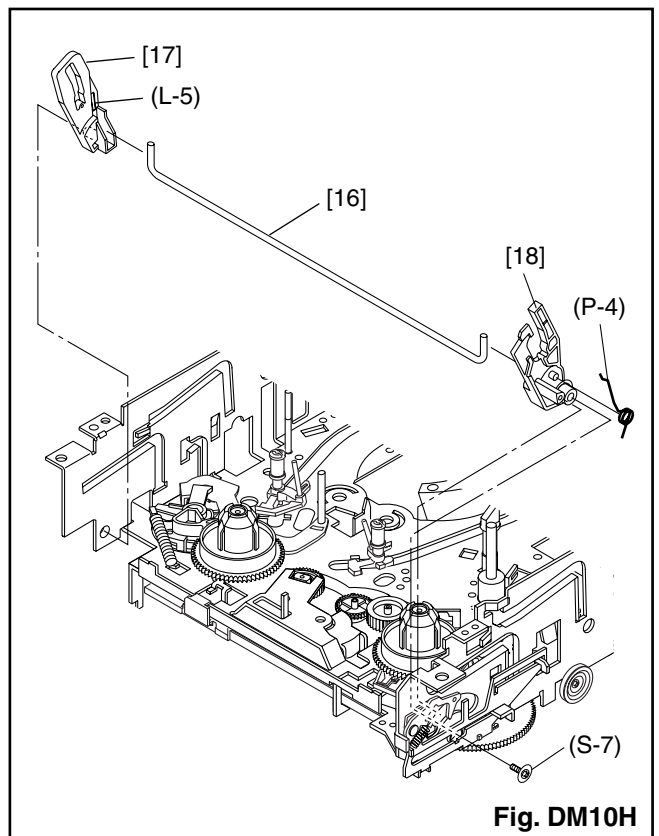
**Fig. C**

Install [11] and [10] while holding [12]. (Refer to Fig. DM8H-1.)

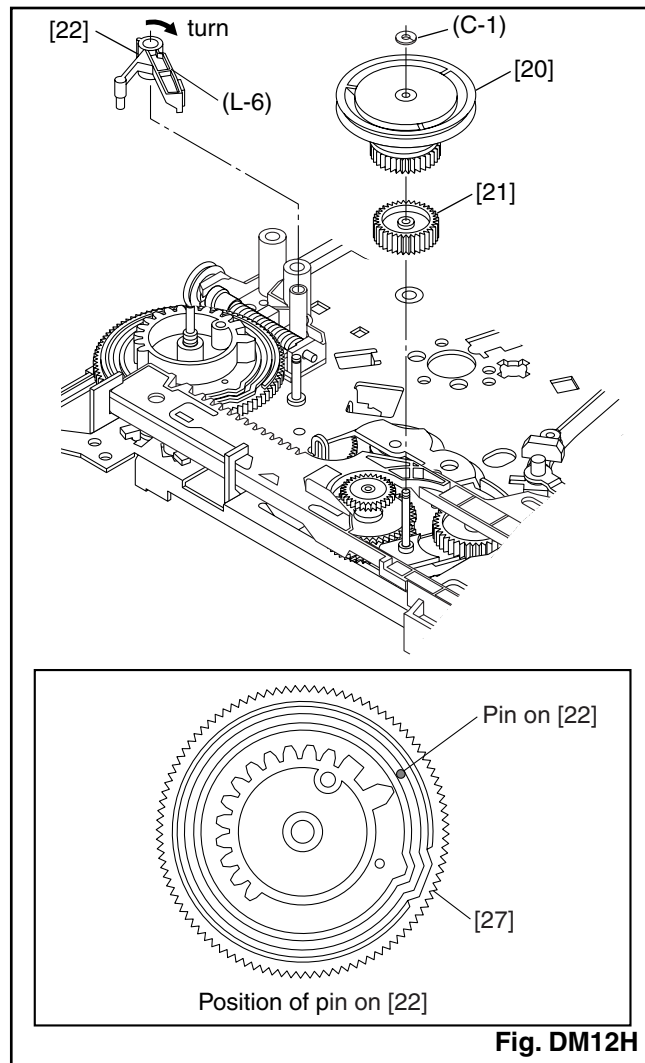
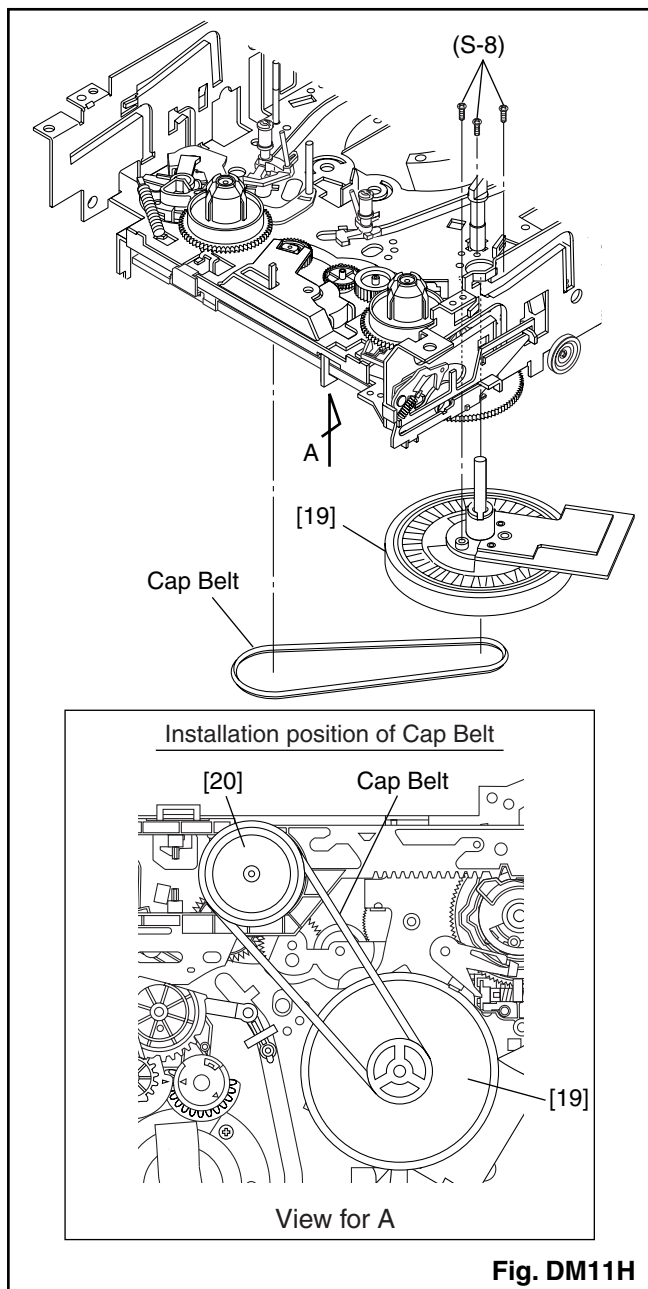
**Fig. DM8H-2**



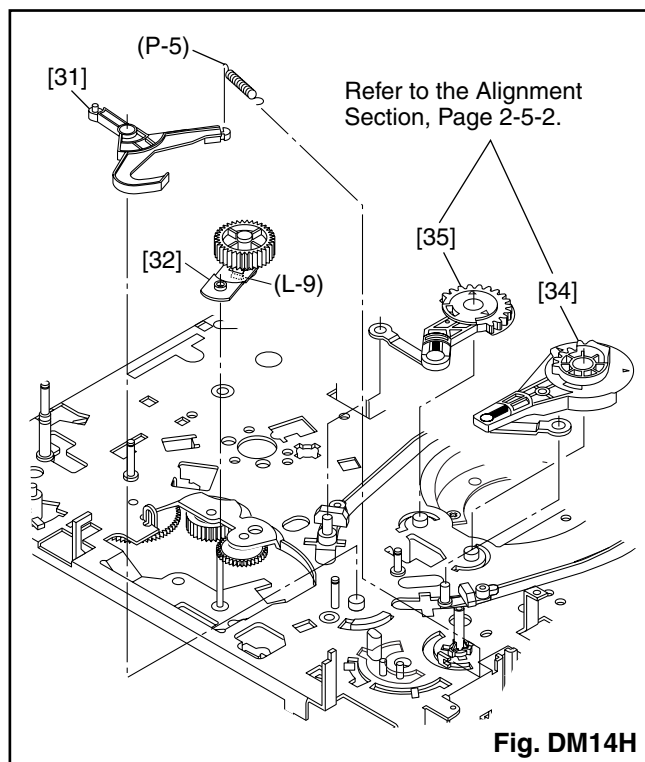
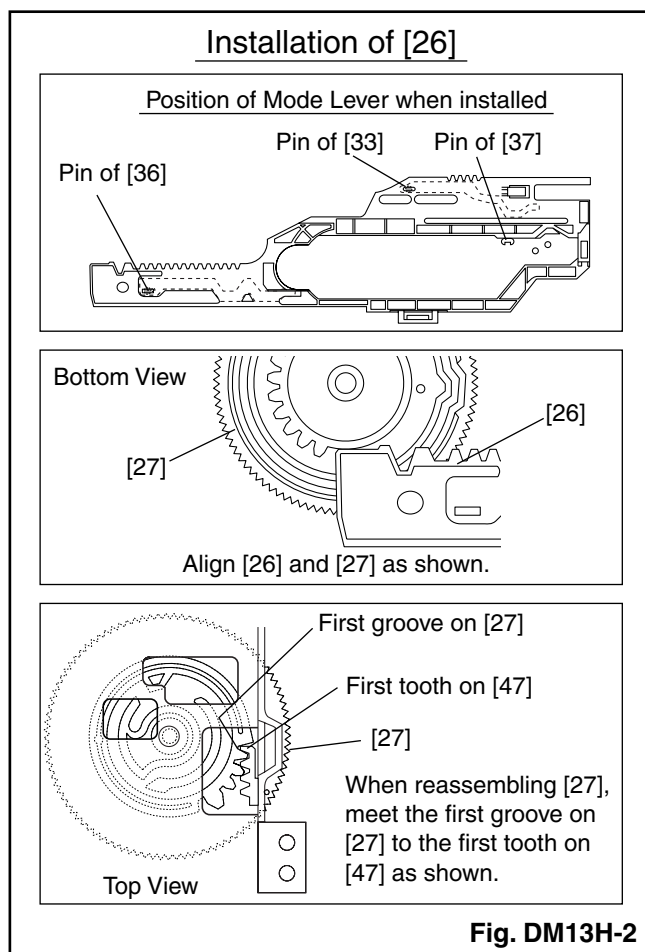
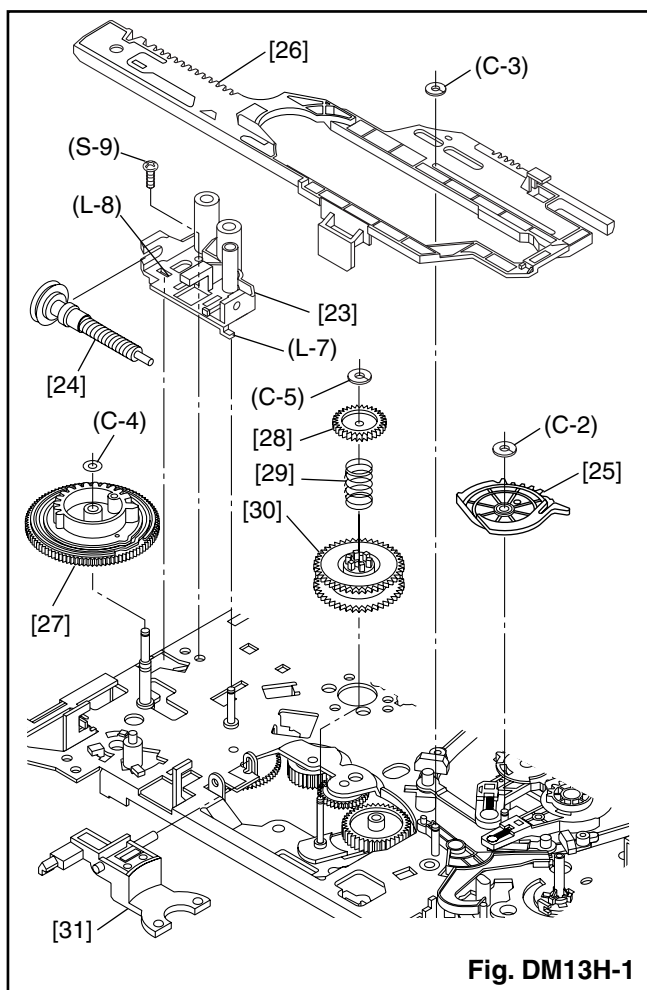
**Fig. DM9H**



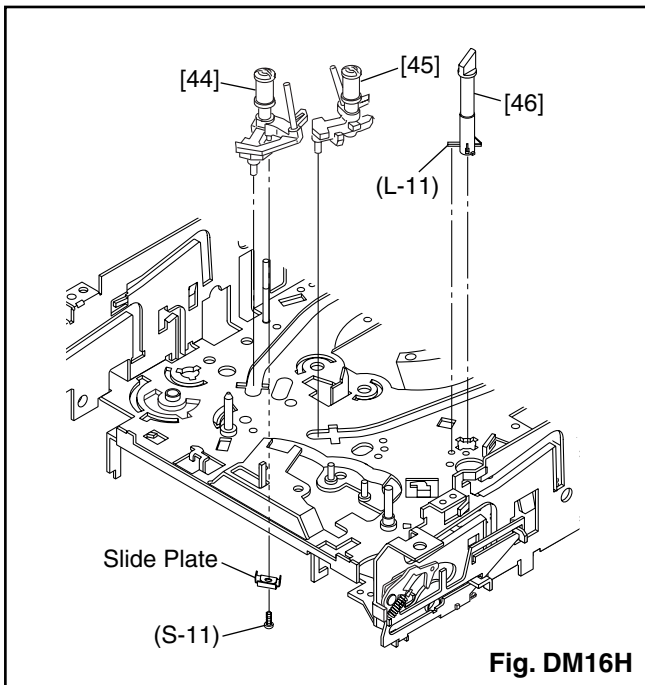
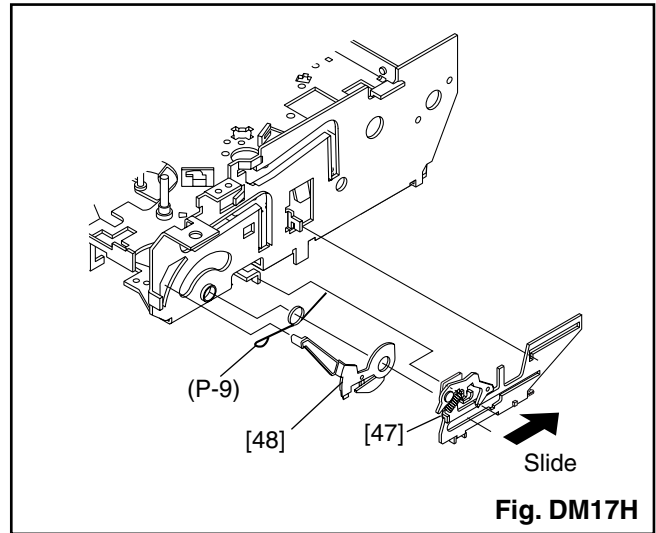
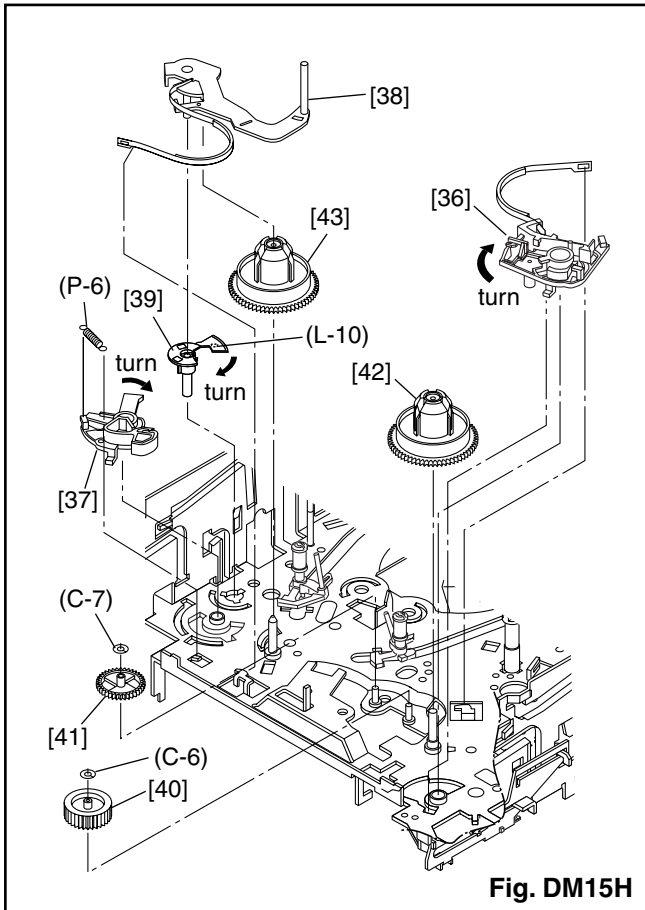
**Fig. DM10H**











# ALIGNMENT PROCEDURES OF MECHANISM

[ 14PV385/ (01, 07, 39) ]

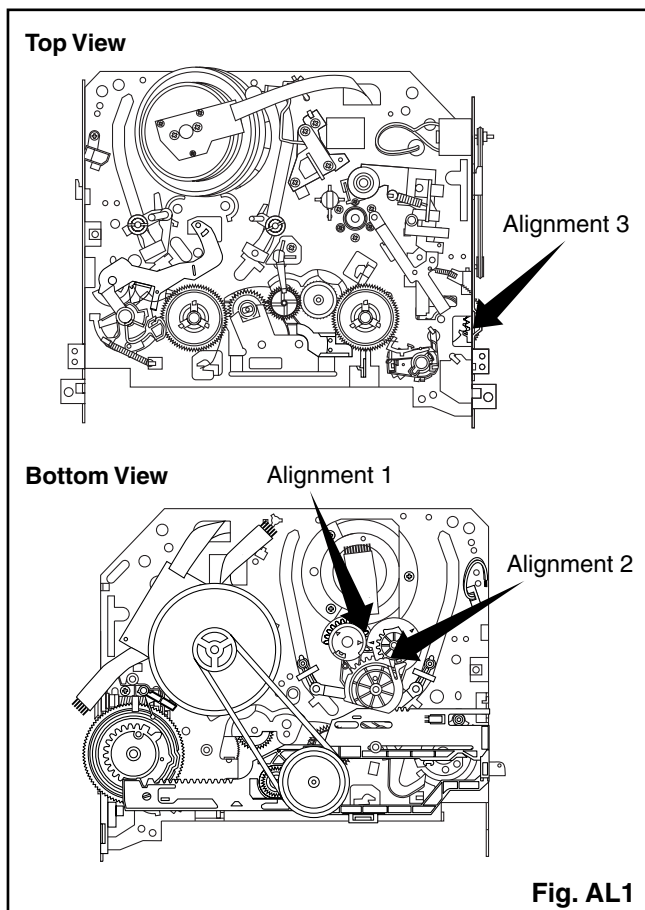
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

**All alignments are to be performed with the mechanism in Eject mode**, in the sequence given. Each procedure assumes that all previous procedures have been completed.

## IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

## Alignment points in Eject Position



## Alignment 1

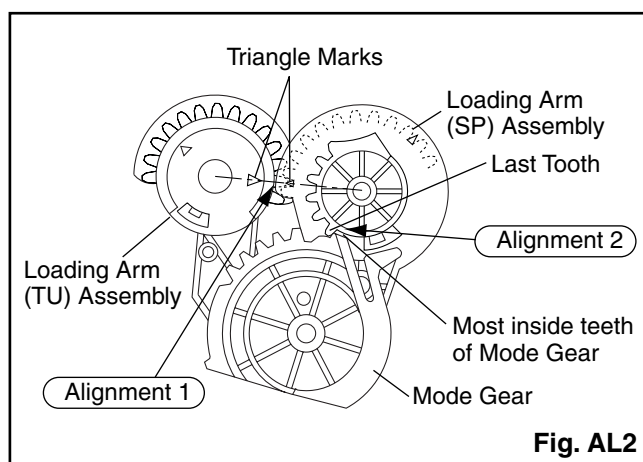
### Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

## Alignment 2

### Mode Gear

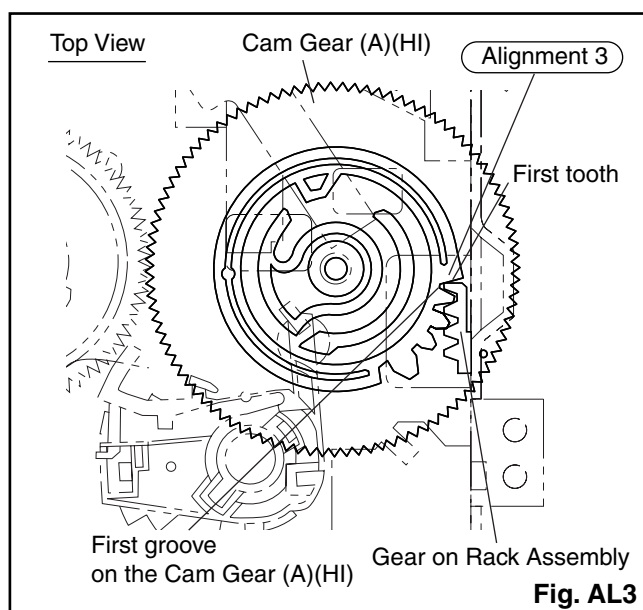
Keeping the two triangles pointing at each other, install the Loading Arm (SP) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



## Alignment 3

### Cam Gear (A) (HI), Rack Assembly

Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) (HI) as shown in Fig. AL3.

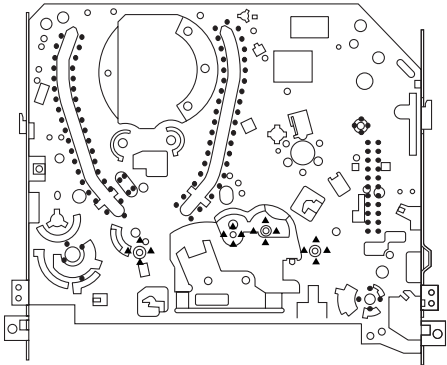
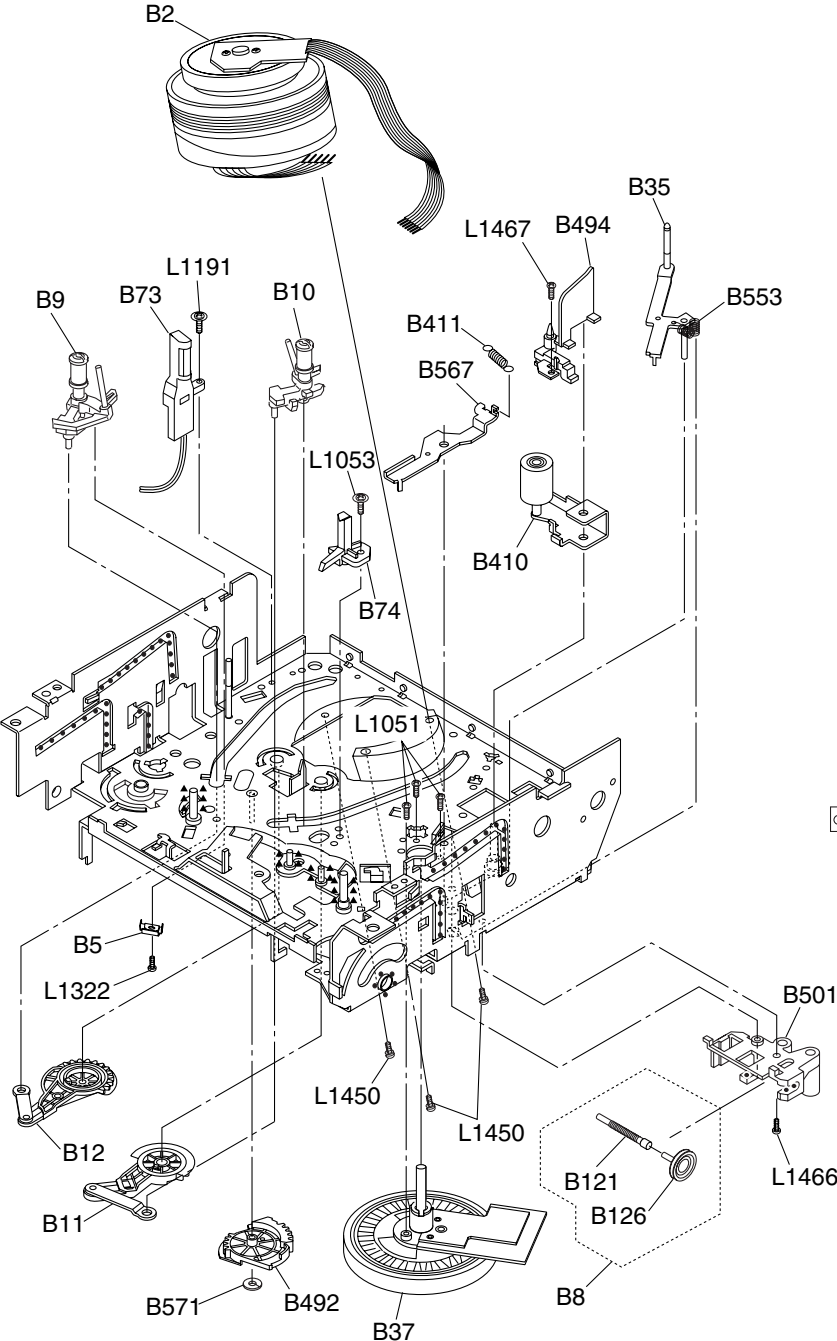


# DECK EXPLODED VIEWS

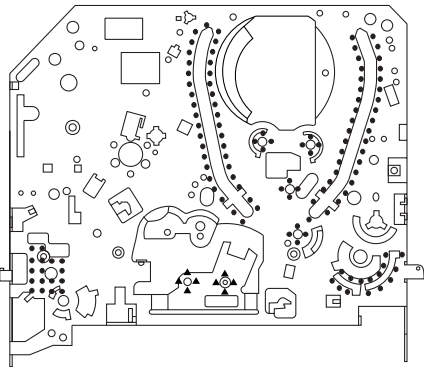
[ 14PV385/ (01, 07, 39) ]

## Deck Mechanism View 1

Mark	Description
•••••	Floil G-684G or Multemp MH-D (Blue grease)
▲▲▲▲▲	SLIDUS OIL #150



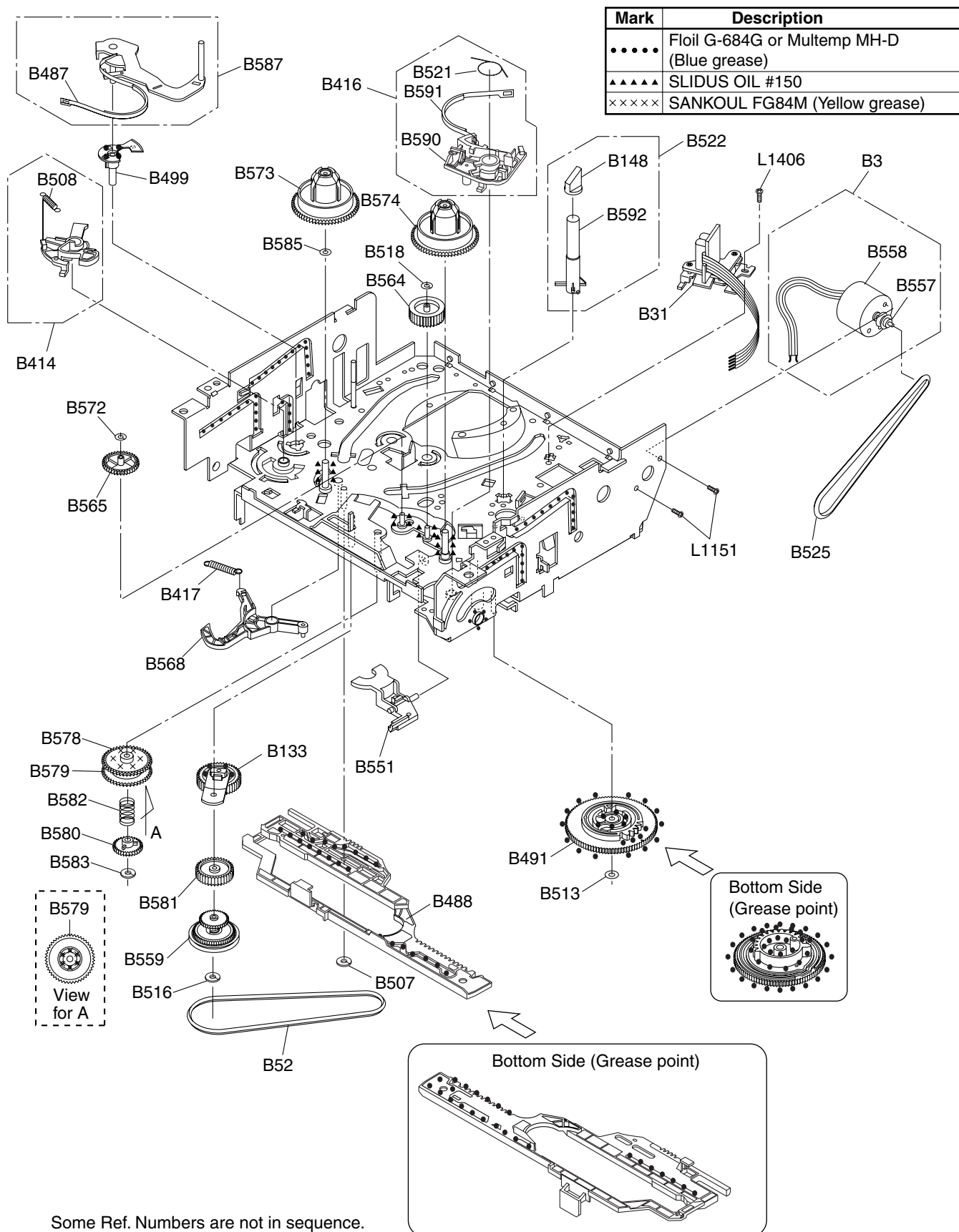
Chassis Assembly  
Top View (Lubricating Point)



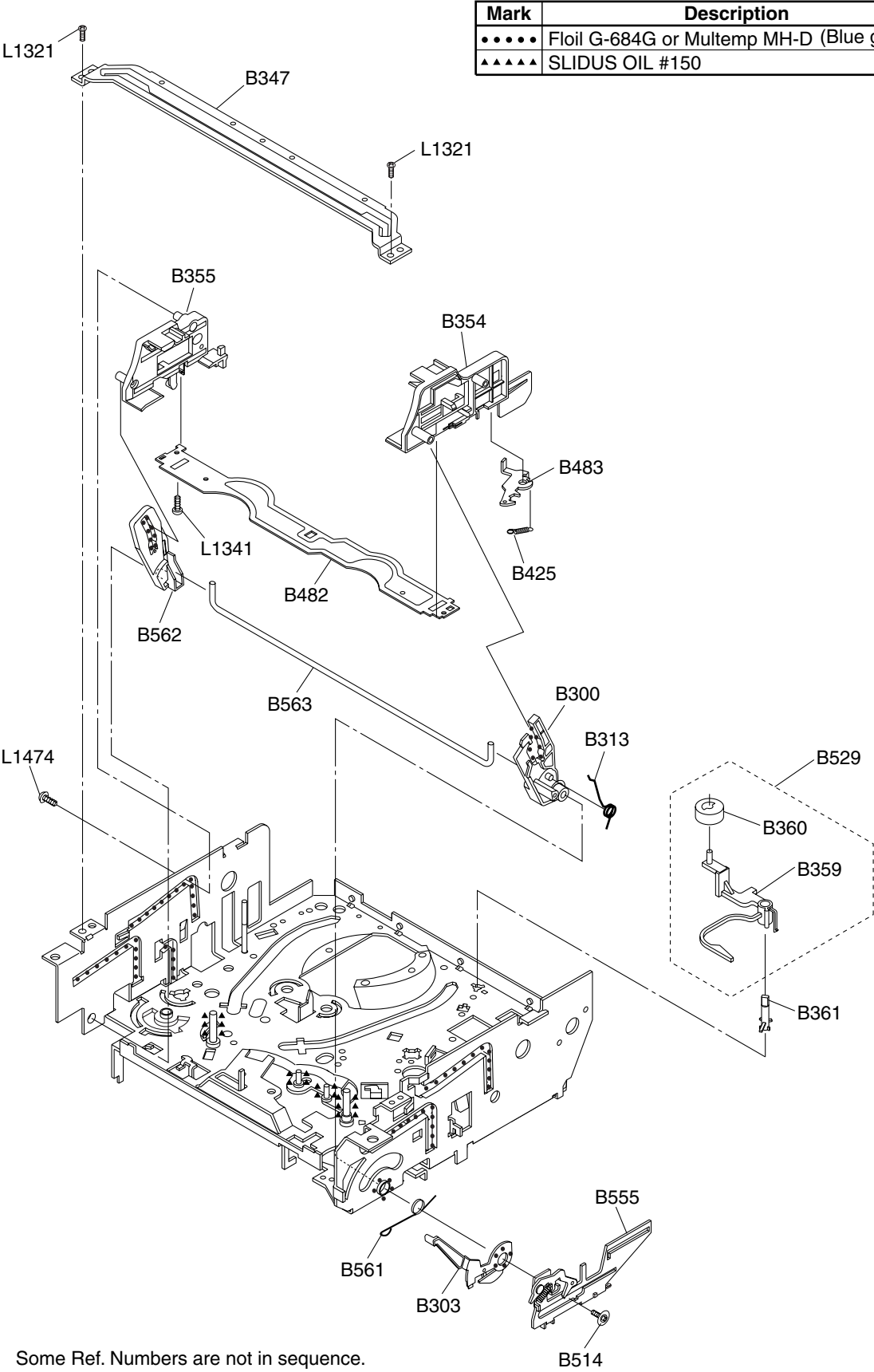
Chassis Assembly  
Bottom View (Lubricating Point)

Some Ref. Numbers are not in sequence.

## Deck Mechanism View 2



Deck Mechanism View 3



Mark	Description
.....	Floil G-684G or Multemp MH-D (Blue grease)
▲▲▲▲	SLIDUS OIL #150

DECK PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
B2	9965 000 23417	CYLINDER ASS.	1	1	1	1	1	1	1	1	1
B3	9965 000 17217	LOADING MOTOR ASS.	1	1	1	1	1	1	1	1	1
B8	9965 000 17191	PULLEY ASS.	1	1	1	1	1	1			
B8	9965 000 16631	PULLEY ASS.(HI)							1	1	1
B9	9965 000 16632	MOVING GUIDE S PREP.	1	1	1	1	1	1	1	1	1
B10	9965 000 16633	MOVING GUIDE T PREP.	1	1	1	1	1	1	1	1	1
B11	9965 000 16634	LOADING ARM(TU) ASS.	1	1	1	1	1	1	1	1	1
B12	9965 000 16635	LOADING ARM(SP) ASS.	1	1	1	1	1	1	1	1	1
B31	9965 000 23553	AC HEAD ASS.	1	1	1	1	1	1	1	1	1
B35	9965 000 23382	TAPE GUIDE ARM ASS.	1	1	1	1	1	1	1	1	1
B37	9965 000 23554	CAPSTAN MOTOR	1	1	1	1	1	1			
B37	9965 000 23367	CAPSTAN MOTOR							1	1	1
B52	9965 000 08593	CAP BELT	1	1	1	1	1	1	1	1	1
B73	9965 000 12210	FE HEAD ASS.	1	1	1	1	1	1	1	1	1
B74	9965 000 08555	PRISM	1	1	1	1	1	1	1	1	1
B121	9965 000 16640	WORM	1	1	1	1	1	1	1	1	1
B126	9965 000 18128	PULLEY	1	1	1	1	1	1	1	1	1
B133	9965 000 17193	IDLER GEAR	1	1	1	1	1	1			
B133	9965 000 16642	IDLER ASS.(HI)							1	1	1
B134	9965 000 17194	IDLER ARM	1	1	1	1	1	1			
B148	9965 000 12368	TG CAP	1	1	1	1	1	1			
B148	4822 462 11189	TG CAP MK6							1	1	1
B300	9965 000 16643	C DRIVE LEVER(TU)	1	1	1	1	1	1	1	1	1
B303	9965 000 18129	F DOOR OPENER	1	1	1	1	1	1	1	1	1
B313	9965 000 16645	C DRIVE SPRING	1	1	1	1	1	1	1	1	1
B347	9965 000 08445	GUIDE HOLDER A	1	1	1	1	1	1	1	1	1
B354	9965 000 18130	SLIDER(TU)	1	1	1	1	1	1	1	1	1
B355	9965 000 23555	SLIDER(SP)	1	1	1	1	1	1	1	1	1
B359	9965 000 08449	CLEANER LEVER	1	1	1	1	1	1	1	1	1
B360	9965 000 06561	CLEANER ROLLER	1	1	1	1	1	1	1	1	1
B361	9965 000 08450	CL POST	1	1	1	1	1	1	1	1	1
B410	9965 000 16648	PINCH ARM(A) ASS.(4)	1	1	1	1	1	1	1	1	1
B411	9965 000 16649	PINCH SPRING	1	1	1	1	1	1	1	1	1
B414	9965 000 23419	M BRAKE(SP) ASS.	1	1	1	1	1	1			
B414	9965 000 17218	M BRAKE(SP) ASS.(HI)							1	1	1
B416	9965 000 17196	M BRAKE(TU) ASS.	1	1	1	1	1	1			
B416	9965 000 16651	M BRAKE(TU) ASS.(HI)							1	1	1
B417	9965 000 24008	TENSION SPG	1	1	1	1	1	1	1	1	1
B425	9965 000 08457	LOCK LEVER SPRING	1	1	1	1	1	1	1	1	1
B426	9965 000 08458	KICK PULLEY	1	1	1	1	1	1			
B482	9965 000 16653	CASSETTE PLATE	1	1	1	1	1	1	1	1	1
B483	9965 000 16654	LOCK LEVER	1	1	1	1	1	1	1	1	1
B487	9965 000 16655	BAND BRAKE(SP)	1	1	1	1	1	1	1	1	1
B488	9965 000 23420	MODE LEVER	1	1	1	1	1	1			
B488	9965 000 18145	MODE LEVER(HI)							1	1	1
B491	9965 000 17199	CAM GEAR(A)	1	1	1	1	1	1			
B491	9965 000 16657	CAM GEAR(A)(HI)							1	1	1
B492	9965 000 16658	MODE GEAR	1	1	1	1	1	1			
B492	9965 000 19636	MODE GEAR(LM)							1	1	1
B494	9965 000 16659	C DOOR OPENER	1	1	1	1	1	1	1	1	1
B499	9965 000 16660	T LEVER HOLDER	1	1	1	1	1	1	1	1	1
B501	9965 000 16661	WORM HOLDER	1	1	1	1	1	1	1	1	1
B502	9965 000 17200	CAM GEAR(B)	1	1	1	1	1	1			
B507	9965 000 05342	REEL WASHER MK9 5*2.1*0.5	1	1	1	1	1	1	1	1	1
B508	9965 000 08470	S BRAKE SPRING	1	1	1	1	1	1			
B508	9965 000 17219	S BRAKE SPRING(HI)							1	1	1
B513	9965 000 17201	CAM WASHER	1	1	1	1	1	1			
B513	4822 532 13158	P.S.W F 6*2.55*0.5							1	1	1
B514	9965 000 08641	SCREW RACK	1	1	1	1	1	1	1	1	1

DECK PARTS LIST			14PV135/01	14PV135/07	14PV135/58	14PV235/01	14PV235/07	14PV235/58	14PV385/01	14PV385/07	14PV385/39
Pos.	▲ 12 NC	Description									
B516	9965 000 05342	REEL WASHER MK9 5*2.1*0.5	1	1	1	1	1	1	1	1	1
B518	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T							1	1	1
B520	9965 000 17202	TU BRAKE SPRING	1	1	1	1	1	1			
B521	9965 000 16662	REV BRAKE SPRING	1	1	1	1	1	1			
B521	9965 000 17220	REV BRAKE SPG(HI)							1	1	1
B522	9965 000 12373	TG POST ASS.	1	1	1	1	1	1			
B522	9965 000 08483	TG POST ASS.							1	1	1
B525	9965 000 12230	LDG BELT	1	1	1	1	1	1	1	1	1
B529	9965 000 08504	CLEANER ASS.	1	1	1	1	1	1	1	1	1
B551	9965 000 17221	FF ARM(HI)							1	1	1
B553	9965 000 12233	REV SPRING	1	1	1	1	1	1	1	1	1
B555	9965 000 16663	RACK ASS.	1	1	1	1	1	1	1	1	1
B557	9965 000 08519	MOTOR PULLEY	1	1	1	1	1	1	1	1	1
B558	9965 000 18131	LOADING MOTOR	1	1	1	1	1	1	1	1	1
B559	9965 000 17204	CLUTCH ASS.	1	1	1	1	1	1			
B559	9965 000 16664	CLUTCH ASS.(HI)							1	1	1
B560	9965 000 08522	KICK SPRING	1	1	1	1	1	1			
B561	9965 000 08523	F DOOR SPRING	1	1	1	1	1	1	1	1	1
B562	9965 000 16665	C DRIVE LEVER(SP)	1	1	1	1	1	1	1	1	1
B563	9965 000 16666	SLIDER SHAFT	1	1	1	1	1	1	1	1	1
B564	9965 000 17205	M GEAR	1	1	1	1	1	1			
B564	9965 000 16667	M GEAR(HI)							1	1	1
B565	9965 000 17206	SENSOR GEAR	1	1	1	1	1	1			
B565	9965 000 16668	SENSOR GEAR(HI)							1	1	1
B567	9965 000 16669	PINCH ARM(B)	1	1	1	1	1	1	1	1	1
B568	9965 000 16670	BT ARM	1	1	1	1	1	1	1	1	1
B569	9965 000 17207	CAM HOLDER(F)	1	1	1	1	1	1			
B570	9965 000 12240	CAM RACK SPRING(HI)	1	1	1	1	1	1			
B571	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T	1	1	1	1	1	1	1	1	1
B572	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T							1	1	1
B573	9965 000 17208	REEL(SP)(D2)	1	1	1	1	1	1			
B573	9965 000 12241	REEL S							1	1	1
B574	9965 000 17209	REEL(TU)(D2)	1	1	1	1	1	1			
B574	9965 000 12376	REEL T							1	1	1
B578	9965 000 12243	TR GEAR A							1	1	1
B579	9965 000 16671	TR GEAR B							1	1	1
B580	9965 000 19638	TR GEAR C							1	1	1
B581	9965 000 16673	CENTER GEAR							1	1	1
B582	9965 000 23374	TR GEAR SPRING							1	1	1
B583	9965 000 17201	CAM WASHER							1	1	1
B585	9965 000 13687	PSW(317505)							1	1	1
B587	9965 000 16674	TENSION LEVER ASS.	1	1	1	1	1	1	1	1	1
B590	9965 000 18132	BRAKE ARM(TU)	1	1	1	1	1	1	1	1	1
B591	9965 000 17210	BAND BRAKE(TU)	1	1	1	1	1	1	1	1	1
B592	9965 000 17211	TG POST	1	1	1	1	1	1			
B592	9965 000 16678	TG POST							1	1	1
L1051	9965 000 05359	SCREW, B-TIGHT M2.6X6 PAN HEAD+	1	1	1	1	1	1	1	1	1
L1053	9965 000 05375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	1	1	1	1	1	1	1	1	1
L1151	9965 000 08642	SCREW, SEMS M2.6X4 PAN HEAD+	1	1	1	1	1	1	1	1	1
L1191	9965 000 05375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	1	1	1	1	1	1	1	1	1
L1321	4822 502 14009	SCREW, S-TIGHT M3X6 BIND HEAD+	1	1	1	1	1	1	1	1	1
L1341	9965 000 23375	SCREW, P-TIGHT M2X6 PAN HEAD+	1	1	1	1	1	1	1	1	1
L1406	9965 000 08643	AC HEAD SCREW MK9	1	1	1	1	1	1	1	1	1
L1450	4822 502 14671	SCREW, SEMS M2.6X5 PAN HEAD+	1	1	1	1	1	1	1	1	1
L1466	9965 000 05364	SCREW, S-TIGHT M2.6X6 BIND HEAD+	1	1	1	1	1	1	1	1	1
L1467	9965 000 23376	SCREW M2.6X5 WASHER HEAD+	1	1	1	1	1	1	1	1	1
L1474	4822 502 14019	SCREW, P-TIGHT M2.6X12 WASHER HEAD+	1	1	1	1	1	1	1	1	1